



STIC Search Report

EIC 3700

STIC Database Tracking Number: 195935

TO: Bena B Miller
Location: RND 7c11
Art Unit: 3725
Thursday, July 20, 2006

Case Serial Number: 10/688733

From: Ethel Leslie
Location: EIC 3700
RND 8A34
Phone: 571-272-5992

Ethel.leslie@uspto.gov

Search Notes

Bena,

Attached is the completed search for a magnetic toy with magnetic parts. I searched the inventors in the patent as well as non-patent literature and the results are included. I did an extensive search on the requested topic in a number of bibliographic and full-text databases as well as on the Internet. I found several items that I think might help you – they are marked with orange flags. Please be sure to look over all the results as there may be other items of interest. I have attached the search strategies used for the searches performed.

If you have a moment, please fill out the attached STIC Feedback Form. If there is anything I can do to refine or revise this search, please let me know.

Sincerely,
Ethel Leslie



STIC Search Results Feedback Form

EIC 3700

Questions about the scope or the results of the search? Contact *the EIC searcher* or contact:

John Sims, EIC 3700 Team Leader
RND 8B35, Phone 2-3507

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: Example: 3730

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC3700 RND 8B31



RUSH

Access DB# 195935

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: BENA Miller Examiner #: 75773 Date: 07/19/06
Art Unit: 3725 Phone Number: 301 244 27 Serial Number: 10/088, 733
Mail Box and Bldg/Room Location: RDN, 714C Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: MAGNETIC TOY CAR

Inventors (please provide full names): ^{Robert} Gnzesek et al

Earliest Priority Filing Date: 10/15/03

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

+ PLEASE SEARCH JOURNALS, NEWSLETTER, NEWS ARTICLE
TOY CAR COMPONENTS CONNECTED
BY MAGNETIC ELEMENT.

MAGNETIC ELEMENT WOULD BE:

1) MAGNETIZED ELEMENT

2) MAGNET

3) ANYTHING OR ELEMENT THAT WOULD
CAUSE A MAGNETIC ATTRACTION BETWEEN
THE COMPONENTS/ELEMENTS.

✓ Monica S. Carter
MONICA CARTER
SUPERVISORY PATENT EXAMINER

STAFF USE ONLY

Type of Search

Vendors and cost where applicable

Set	Items	Description
S1	1699804	CAR OR CARS OR AUTOMOBILE? OR VEHICLE? ? OR VEHICULAR? OR - TRUCK OR TRUCKS OR FIRETRUCK? OR VAN OR VANS OR TRAIN OR TRAI- NS OR MOTORCYCLE?
S2	428641	AIRPLANE? ? OR AEROPLANE? OR AIRCRAFT? OR WATERCRAFT? OR B- OAT OR BOATS OR SHIP OR SHIPS OR YACHT? OR JET OR JETS OR ROC- KET? ? OR ROCKETSHIP? OR SPACECRAFT?
S3	6278	DOLL OR DOLLS OR FIGURINE? ? OR ACTION() (FIGURE? ? OR HERO OR HEROS OR HEROES)
S4	32049	TOY OR TOYS OR PLAYTHING? OR PLAY()THING?
S5	1168308	MAGNET? OR ELECTROMAGNET? OR FERROMAGNET?
S6	2722064	IRON OR FERROUS OR STEEL OR NICKEL OR METAL OR METALLIC?
S7	7629282	ATTACH? OR COUPL? OR CONNECT? OR SECURE? ? OR SECURING OR - JOIN OR JOINED OR JOINING OR FASTEN? OR ENGAG??? OR FIX OR FI- XED OR AFFIX OR AFFIXED OR ADHER???
S8	9760882	PORTION OR PORTIONS OR ELEMENT? ? OR COMPONENT? OR PART OR PARTS OR SECTION? ? OR DIVISION? OR PIECE OR PIECES
S9	190158	IC=(A63H? OR A63F?)
S10	195257	S5(5N)S8
S11	188	S1:S3 AND S10 AND (S4 OR S9)
S12	2111	S1:S3(S)S10(S)S7
S13	69	S12 AND (S4 OR S9)
S14	69488	S1:S4 AND S5:S6 AND S7 AND S8
S15	664	(S14 NOT S13) AND S9
S16	18854	S1:S4 (S) S5:S6 (S) S7 (S) S8
S17	317	(S16 NOT S13) AND S9
S18	149654	S5(5N)S7
S19	200510	S1:S3 (5N)S8
S20	1159	S18 AND S19 AND S5
S21	15	(S20 NOT S13) AND S9
S22	17400	S1:S4(5N)S5
S23	234061	S6(5N)S7
S24	2403	S1:S4(5N)S23
S25	3767	(S22 OR S24) (25N)S8
S26	130	(S25 NOT (S13 OR S21)) AND S9
S27	1680	S1:S3 (S) (S5(5N)S7(5N)S8)
S28	10	(S27 NOT (S13 OR S21)) AND S9
S29	2590	S1:S3 (S) S5 (S) (S7(5N)S8)
S30	13	(S29 NOT (S13 OR S21 OR S28)) AND S9
S31	852	S24 (25N)S8
S32	0	(S30 NOT (S13 OR S21 OR S28 OR S30)) AND S9
S33	263870	(INTERCHANG? OR DETACH? OR REMOV?) (5N)S8
S34	319	S1:S4(S)S33(S) (S5 OR S23)
S35	17	(S34 NOT (S13 OR S21 OR S28 OR S30)) AND S9

? show files; logoff hold

File 347:JAPIO Dec 1976-2005/Dec(Updated 060404)

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File 350:Derwent WPIX 1963-2006/UD=200645

(c) 2006 The Thomson Corp.

13/5/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2006 JPO & JAPIO. All rts. reserv.

08362629 **Image available**
FACE ADJUSTABLE TOY

PUB. NO.: 2005-110889 [JP 2005110889 A]
PUBLISHED: April 28, 2005 (20050428)
INVENTOR(s): MAEDA TAKETOSHI
HIRATA YOSUKE
APPLICANT(s): TOKYO UNIQUE KK
APPL. NO.: 2003-347786 [JP 2003347786]
FILED: October 07, 2003 (20031007)
INTL CLASS: A63H-003/16 ; A63H-003/36 ; A63H-003/44 ; A63H-003/48

ABSTRACT

PROBLEM TO BE SOLVED: To provide a **toy** such as a **doll** by which children or others can play by easily and quickly changing the expression of the **doll** .

SOLUTION: The head portion B of the **doll** or others is separated to a rear half head portion C and a front half head portion D, the front half head portions comprises a plurality of ones having different expressions and faces, the separation face 12 of the front half head portion D is freely **attachably** and detachably and exchangeably attracted to the separation face of the rear half head **portion** C with a **magnet** 11, a magnet, and a magnetic body 11a embedded in the separation faces 12 of both the half head portions.

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13/5/11 (Item 11 from file: 347)
DIALOG(R)File 347:JAPIO
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03643283 **Image available**
MANUFACTURE OF SPEAKER-MOUNTED LIFE-SIZE DOLL COMBINED WITH BODY PART HAVING ARTICULATED SKELETON

PUB. NO.: 04-008383 [JP 4008383 A]
PUBLISHED: January 13, 1992 (19920113)
INVENTOR(s): INOUE YUKIO
APPLICANT(s): INOUE YUKIO [000000] (An Individual), JP (Japan)
APPL. NO.: 02-112388 [JP 90112388]
FILED: April 26, 1990 (19900426)
INTL CLASS: [5] A63H-009/00 ; A63H-003/33 ; A63H-003/46
JAPIO CLASS: 30.2 (MISCELLANEOUS GOODS -- Sports & Recreation)
JOURNAL: Section: C, Section No. 929, Vol. 16, No. 152, Pg. 122, April 15, 1992 (19920415)

ABSTRACT

PURPOSE: To form a life-size doll, in which body parts are combined with joints closely attached to each other, by mounting one baseboard core to a skeleton to be arranged in a metal mold or arranging both baseboard cores and respectively mounting the necessary skeleton and accessory members to a hollow part from which the core is removed after molding.

CONSTITUTION: A solid model of a **doll** in a riseup attitude is manufactured by using a pair of casts, divided by a plane into the front and rear, by rough dividing a body part into six body parts of a head part 1, barrel part 2, both leg foot parts 3 and both arm parts 4. In the **doll**, combination closely **attached** to each other of joints 10, 11, 12 is performed and removed, with deformation impossible in a joint external shape body part 7 by articulated motion, by mounting the joints 10, 11, 12 closely **attached** to each other when the barrel part 2 and the other body parts 1, 3, 4 are combined with each other. A skeleton is arranged in a mold by using both baseboard cores 19, having a cylinder part, for the head part 1 and mounting a nipple and a one baseboard core 9, provided with a **magnet part** 36, respectively in skeleton end parts of the leg foot parts 3 and the arm parts 4. In this way, the functional **doll**, which wears human costume to perform human movement and to transmit a voice from a speaker 65, can be manufactured.

13/5/12 (Item 12 from file: 347)

DIALOG(R)File 347:JAPIO

(c) 2006 JPO & JAPIO. All rts. reserv.

03541781 **Image available**

EDUCATIONAL DOLL MODEL TO BE UTILIZED FOR GYMNASTICS WITH APPARATUS

PUB. NO.: 03-204681 [JP 3204681 A]
PUBLISHED: September 06, 1991 (19910906)
INVENTOR(s): NOMURA OSAMU
APPLICANT(s): NOMURA OSAMU [000000] (An Individual), JP. (Japan)
APPL. NO.: 02-000834 [JP 90834]
FILED: January 06, 1990 (19900106)
INTL CLASS: [5] G09B-019/00; A63B-001/00; A63B-069/00; **A63H-003/04** ;
A63H-003/10 ; **A63H-003/36**
JAPIO CLASS: 30.2 (MISCELLANEOUS GOODS -- Sports & Recreation)
JOURNAL: Section: P, Section No. 1283, Vol. 15, No. 477, Pg. 92,
December 04, 1991 (19911204)

ABSTRACT

PURPOSE: To fundamentally change the instruction method of the horizontal bar, to aid essential understanding of a performance, and to improve rate of learning by supporting joint parts of each part of a body freely rotatable.

CONSTITUTION: The device is constituted from a main body of the educational **doll** model, signs, and circular **magnets**, each **parts** of the body are separated into 1 and 1 so that analysis can be carried out by looking at the human being **engaged** in gymnastics with apparatus from the side, and the joint parts can be freely rotated. The position of centroid is moved with body movement. There is a total of six signs, three each of red color and yellow color, and the signs are utilized when the part carrying out the gymnastics and its direction is explained. The magnets are **attached** to the **doll** model and the signs so that they can be **fixed** on a small blackboard, and any movement can be displayed. Thus, the method of instruction for the horizontal bar is changed fundamentally, essential understanding of the performance is aided, and improvement in learning can be obtained.

13/5/13 (Item 13 from file: 347)

DIALOG(R)File 347:JAPIO

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03013085 **Image available**
TOY OF DOLL AND ANIMAL OR THE LIKE

PUB. NO.: 01-310685 [JP 1310685 A]
PUBLISHED: December 14, 1989 (19891214)
INVENTOR(s): NAKAMACHI TAKEJI
APPLICANT(s): NAKAMACHI TAKEJI [000000] (An Individual), JP (Japan)
APPL. NO.: 63-142582 [JP 88142582]
FILED: June 09, 1988 (19880609)
INTL CLASS: [4] A63H-003/36 ; A63H-003/46
JAPIO CLASS: 30.2 (MISCELLANEOUS GOODS -- Sports & Recreation)
JOURNAL: Section: C, Section No. 694, Vol. 14, No. 106, Pg. 93,
 February 27, 1990 (19900227)

ABSTRACT

PURPOSE: To attain stable upright stance and to set the various types of motion by loading the **toy** of a doll, etc., for which a magnetic substance is built-in on the back of feet, on a steel plate, flexibly linking a head part, an arm part, a leg part and a body part and internally mounting a bending mechanism in the joint part of the respective parts.

CONSTITUTION: For a **doll** 2, a magnet 8 is built-in on a foot back 7 and a plate 1 and a foot back 7 are freely **fixed** and separated by controlling a **magnetism** generating device 9. A body **part** 4, a head part 3, an arm part 5 and leg parts 6 are linked with fitting a ball-shaped projecting member 11, which is projected on the base parts of the head part 3, arm part 5 and leg parts 6, to a cup-shaped receiving member 10 of the body part 4 so as to be flexibly linked. The respective joints can be bent in a specified direction by a bending mechanism 12. Then, one base part 13 and another tip part 14 to constitute the joint shaft- **attached** (a) at a center in the bending direction with being inclinable and in a non-bending side (b), the side edge in the non-bending side (c) of the tip part 14 is locked by a stopper 15, which is provided in the base part 13, and energized in an anti-bending direction by a spring 16. Then, a linear condition is maintained.

13/5/15 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 The Thomson Corp. All rts. reserv.

017927923 **Image available**
WPI Acc No: 2006-439240/200645
XRPX Acc No: N06-361458

Stuffed- toy doll for hand length monkey, has magnets provided in head part and body part, wherein hand rotated to all directions of doll adheres to magnet of the head part and performs various gesture expressions

Patent Assignee: UCHIDA Y (UCHI-I)
Inventor: UCHIDA N
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2006167390	A	20060629	JP 2004382511	A	20041213	200645 B

Priority Applications (No Type Date): JP 2004382511 A 20041213

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2006167390	A		4	A63H-003/00	

Abstract (Basic): JP 2006167390 A

NOVELTY - The doll has a head part and a body part, each provided with a magnet (1,2). Metal particles are provided in the door to cooperate with the magnet. A hand rotated to all directions of the doll **adheres** to the **magnet** of the head **part**, and performs various gesture expressions.

USE - For hand length monkey.

ADVANTAGE - Provides a stuffed- **toy** doll having a hand that can move freely performing various expressions.

DESCRIPTION OF DRAWING(S) - The figure shows the general view of the stuffed- **toy** doll for hand length monkey.

Magnet (1,2)

Arm parts (3)

pp; 4 DwgNo 1/4

Title Terms: STUFF; **TOY**; DOLL; HAND; LENGTH; MONKEY; MAGNET; HEAD; PART; BODY; PART; HAND; ROTATING; DIRECTION; DOLL; ADHERE; MAGNET; HEAD; PART; PERFORMANCE; VARIOUS; EXPRESS

Derwent Class: P36

International Patent Class (Main): **A63H-003/00**; **A63H-003/02**

International Patent Class (Additional): **A63H-003/36**

File Segment: EngPI

13/5/27 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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016395713 **Image available**

WPI Acc No: 2004-553622/200453

XRPX Acc No: N04-438027

Built-up toy used as toy and educational tool for infant has polyhedron components which can be joined with each other at joining surfaces according to magnetic attraction between magnets provided in joining surfaces of components.

Patent Assignee: ORDA KOREA CO LTD (ORDA-N); PARK K (PARK-I)

Inventor: PARK K; PARK G H

Number of Countries: 109 Number of Patents: 011

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200462760	A1	20040729	WO 2004KR48	A	20040114	200453	B
KR 2004065186	A	20040721	KR 20042708	A	20040114	200474	
KR 457305	B	20041117	KR 20042708	A	20040114	200523	
AU 2004204560	A1	20040729	AU 2004204560	A	20040114	200553	
NO 200503789	A	20050921	WO 2004KR48	A	20040114	200568	
			NO 20053789	A	20050810		
EP 1587595	A1	20051026	EP 2004702091	A	20040114	200570	
			WO 2004KR48	A	20040114		
BR 200406750	A	20051220	BR 20046750	A	20040114	200604	
			WO 2004KR48	A	20040114		
JP 2006513018	W	20060420	WO 2004KR48	A	20040114	200627	
			JP 2005518744	A	20040114		
MX 2005007426	A1	20050901	WO 2004KR48	A	20040114	200629	
			MX 20057426	A	20050708		
US 20060111010	A1	20060525	WO 2004KR48	A	20040114	200635	
			US 2005542276	A	20050714		
CN 1735444	A	20060215	CN 20048000212	A	20040114	200643	

Priority Applications (No Type Date): KR 200316688 A 20030318; KR 20032395 A 20030114

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200462760 A1 E 63 A63H-033/10

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ
CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID
IL IN IS JP KE KG KP KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA
NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA
UG US UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG BW CH CY CZ DE DK EA EE ES FI FR
GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR
TZ UG ZM ZW

KR 2004065186 A A63H-033/10

KR 457305 B A63H-033/10 Previous Publ. patent KR 2004065186

AU 2004204560 A1 A63H-033/10 Based on patent WO 200462760

NO 200503789 A A63H-033/10

EP 1587595 A1 E A63H-033/10 Based on patent WO 200462760

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

BR 200406750 A A63H-033/10 Based on patent WO 200462760

JP 2006513018 W 25 A63H-033/04 Based on patent WO 200462760

MX 2005007426 A1 A63H-033/10 Based on patent WO 200462760

US 20060111010 A1 A63H-033/04

CN 1735444 A A63H-033/04

Abstract (Basic): WO 200462760 A1

NOVELTY - The built-up **toy** vehicle includes number of polyhedron components (10a,10b) having joining surfaces (11a,11b) for joining with each other. Each **component** is provided with a **magnet** (100a,110b) in the **joining** surface. The components **couple** with each other through the **joining** surfaces according to the magnetic attraction between the **magnets** of the **components**.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a joining apparatus with rotatable magnet.

USE - Used as **toy** and educational tool for infant.

ADVANTAGE - Ensures simple assembly and disassembly of **toy**. Prevents **toy** in assembled state from being disassembled easily. Enables helping and developing initiative of an infant through coupling and assembly of components of various shapes. Prevents separation of magnet from joining surface of each component through attachment of a cut piece on a wooden portion in component. Allows modification of magnet and wooden portions to a variety of manners.

DESCRIPTION OF DRAWING(S) - The figure shows the exploded perspective view of built-up **toy**.

Polyhedron components (10a,10b)

Joining surfaces (11a,11b)

Magnet (100a,110b)

pp; 63 DwgNo 2/33

Title Terms: BUILD; UP; **TOY**; **TOY**; EDUCATION; TOOL; INFANT; POLYHEDRAL; COMPONENT; CAN; JOIN; JOIN; SURFACE; ACCORD; MAGNETIC; ATTRACT; MAGNET; JOIN; SURFACE; COMPONENT

Derwent Class: P36

International Patent Class (Main): A63H-033/04 ; A63H-033/06 ;

A63H-033/08 ; A63H-033/10

International Patent Class (Additional): A63H-033/00

File Segment: EngPI

13/5/32 (Item 18 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015913240 **Image available**

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WPI Acc No: 2004-071080/200407
Related WPI Acc No: 2004-071078
XRPX Acc No: N04-057199

Magnetic coupling for toy vehicle e.g. car, has dome-shaped end piece of protruding part engaging with end piece of retractable part where end pieces are formed of magnetic and magnetically attractive materials

Patent Assignee: MATTEL INC (MATV)

Inventor: BUTKIEWICZ R A; MONZO A P; NEEDHAM A; PAYNE J R; PONTON F; SISOLAK G J; TOOBY A

Number of Countries: 105 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 2003101572	A1	20031211	WO 2003US14817	A	20030512	200407 B
US 20040023593	A1	20040205	US 2002385158	P	20020530	200416
			US 2002423310	P	20021101	
			US 2003447672	P	20030214	
			US 2003418814	A	20030418	
AU 2003229012	A1	20031219	AU 2003229012	A	20030512	200449
EP 1509298	A1	20050302	EP 2003726792	A	20030512	200517
			WO 2003US14817	A	20030512	
US 6896574	B2	20050524	US 2002385158	P	20020530	200535
			US 2002423310	P	20021101	
			US 2003447672	P	20030214	
			US 2003418814	A	20030418	
TW 200400845	A	20040116	TW 2003113840	A	20030522	200567
CN 1658934	A	20050824	CN 2003812621	A	20030512	200604

Priority Applications (No Type Date): US 2003418814 A 20030418; US 2002385158 P 20020530; US 2002423310 P 20021101; US 2003447672 P 20030214

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 2003101572 A1 E 24 A63H-033/26

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

US 20040023593 A1 A63H-033/26 Provisional application US 2002385158
Provisional application US 2002423310
Provisional application US 2003447672

AU 2003229012 A1 A63H-033/26 Based on patent WO 2003101572
EP 1509298 A1 E A63H-033/26 Based on patent WO 2003101572

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

US 6896574 B2 A63H-033/26 Provisional application US 2002385158
Provisional application US 2002423310
Provisional application US 2003447672

TW 200400845 A A63H-017/26

CN 1658934 A A63H-033/26

Abstract (Basic): WO 2003101572 A1

NOVELTY - The coupling has a stationary protruding part (52) with an engageable ridge and a dome-shaped end piece. A retractable part (58) has another dome-shaped end piece to engage with the end piece of the protruding part. The former end piece is partially formed of a magnetic material and latter end piece is partially formed of a non-magnetic and magnetically attractive material.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a

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coupling device for a **toy** vehicle.

USE - Used for magnetically coupling a **toy** vehicle e.g. **toy** car, **toy** truck, **toy** boat, **toy** train and **toy** helicopter.

ADVANTAGE - The dome-shaped end piece of the protruding and retractable part engages with each other, thereby allowing the user to join and pull the vehicles without decoupling and articulation of vehicles.

DESCRIPTION OF DRAWING(S) - The drawing shows a side elevational view of a magnetically coupled **toy** vehicle.

Stationary protruding part (52)

Retractable part (58)

Toy vehicle (80)

Wheels (88a-b)

Vehicle (180)

pp; 24 DwgNo 1/6

Title Terms: MAGNETIC; COUPLE; **TOY** ; VEHICLE; CAR; DOME; SHAPE; END; PIECE ; PROTRUDE; PART; ENGAGE; END; PIECE; RETRACT; PART; END; PIECE; FORMING; MAGNETIC; MAGNETIC; ATTRACT; MATERIAL

Derwent Class: P36

International Patent Class (Main): **A63H-017/26** ; **A63H-033/26**

File Segment: EngPI

13/5/33 (Item 19 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015876776 **Image available**

WPI Acc No: 2004-034609/200403

XRAM Acc No: C04-011325

XPX Acc No: N04-027567

Doll includes head comprising facial portion having first support with receiving surface for receiving face member having second support with transfer support for transfer of facial features having the likeness of particular person

Patent Assignee: BECKER E J P (BECK-I); BECKER F W (BECK-I); BECKER R M (BECK-I); MORRIS R M (MORR-I)

Inventor: BECKER E J P; BECKER F W; BECKER R M; MORRIS R M

Number of Countries: 102 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200395057	A1	20031120	WO 2003US14405	A	20030507	200403 B
US 20040077274	A1	20040422	US 2002378314	P	20020507	200428
			US 2003431123	A	20030822	
AU 2003234532	A1	20031111	AU 2003234532	A	20030507	200442
US 6945841	B2	20050920	US 2002378314	P	20020507	200562
			US 2003431123	A	20030506	

Priority Applications (No Type Date): US 2002378314 P 20020507; US 2003431123 A 20030822

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200395057 A1 E 23 A63H-033/34

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW



US 20040077274 A1 A63H-003/00 Provisional application US 2002378314

AU 2003234532 A1 A63H-033/34 Based on patent WO 200395057
US 6945841 B2 A63H-003/16 Provisional application US 2002378314

Abstract (Basic): WO 200395057 A1

NOVELTY - A doll comprises a doll form including a body (20) and a head in the shape of a human. The head includes a facial portion (10) having a first support with a receiving surface (2) for receiving a face member. The face member comprises a second support having a transfer support for transfer of facial features (40) having the likeness of a person. The supports are compatible so that the face member is attached to the receiving surface.

USE - Used as a doll.

ADVANTAGE - The invention has facial features with the likeness of a particular person or animal.

DESCRIPTION OF DRAWING(S) - The figures show a basic view of the doll, components of the face member, face member, and an interchangeable hair component.

Supports (1, 3)
Receiving surface (2)
Transfer surface (4)
Facial portion (10)
Body (20)
Face member (30)
Facial features (40)
Hair (50)
pp; 23 DwgNo 1/4

Title Terms: DOLL; HEAD; COMPRISE; FACE; PORTION; FIRST; SUPPORT; RECEIVE; SURFACE; RECEIVE; FACE; MEMBER; SECOND; SUPPORT; TRANSFER; SUPPORT; TRANSFER; FACE; FEATURE; PERSON

Derwent Class: A86; P36

International Patent Class (Main): A63H-003/00 ; A63H-003/16 ;
A63H-033/34

International Patent Class (Additional): A63H-003/36

File Segment: CPI; EngPI

13/5/35 (Item 21 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015042595 **Image available**

WPI Acc No: 2003-103111/200309

XRPX Acc No: N03-082429

Toy vehicle e.g. toy car for children has body sections with magnets having magnetic pole orientation that are opposite with one another to couple body sections together

Patent Assignee: MANKOWSKI L R (MANK-I)

Inventor: MANKOWSKI L R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020177384	A1	20021128	US 2001864588	A	20010524	200309 B

Priority Applications (No Type Date): US 2001864588 A 20010524

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020177384	A1		7 A63H-017/00	

Abstract (Basic): US 20020177384 A1

9

NOVELTY - The **toy** consists of body sections having magnets, such that magnetic pole orientation of one magnet is opposite with the magnetic pole orientation of another magnet to couple the body sections together. Each magnet has magnetic intensity about 20,000 dynes when magnets contact each other.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method for displaying a **toy** vehicle.

USE - For children.

ADVANTAGE - Attains cost effective **toy** for children that allow adults to perform an anticipated visual effect to draw another person's attention.

DESCRIPTION OF DRAWING(S) - The figure is a perspective view of a **toy** mounted on glass.

pp; 7 DwgNo 1/10

Title Terms: **TOY** ; VEHICLE; **TOY** ; CAR; CHILD; BODY; SECTION; MAGNET; MAGNETIC; POLE; ORIENT; OPPOSED; ONE; COUPLE; BODY; SECTION

Derwent Class: P36

International Patent Class (Main): **A63H-017/00**

File Segment: EngPI

13/5/36 (Item 22 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014764324 **Image available**

WPI Acc No: 2002-585028/200263

XRPX Acc No: N02-463949

System for temporary joining of two parts with magnets, in particular components of toy or model vehicle

Patent Assignee: STAEBLEIN R (STAE-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 20201310	U1	20020808	DE 2002U2001310	U	20020129	200263 B

Priority Applications (No Type Date): DE 2002U2001310 U 20020129

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 20201310	U1	18	A63H-033/10	

Abstract (Basic): DE 20201310 U1

NOVELTY - A magnet (2) is permanently fixed inside a recess (3) provided at one of the components (1) of a **toy** to be assembled by the child. The upper surface of the magnet (1) is flush with the surface of the component (1) and also provided with a recess (4) particularly shaped in order to be engaged with a magnetic element (6) permanently attached to a second component (5) and protruding from same as an extension. The magnets (2, 6) can either be designed in order not to move when joined (with polygonal surfaces) or to be able to move within limits, by being spherical or ball shaped, concave respectively.

USE - The system can be used for the temporary **joining** of two parts with magnets, in particular components of a **toy** or a model **vehicle**.

ADVANTAGE - The parts can be easily assembled and detached, no tools are required.

DESCRIPTION OF DRAWING(S) - The drawing shows a side view of two parts of the system.

first component (1)

magnet (2)

10

recess (3)
recess in magnet (4)
second component (5)
magnetic extension (6)
plug element (7, 8)
stop (9)
fixing area (10, 11)
pp; 18 DwgNo 1/4

Title Terms: SYSTEM; TEMPORARY; JOIN; TWO; PART; MAGNET; COMPONENT; TOY ;
MODEL; VEHICLE
Derwent Class: P36; Q68
International Patent Class (Main): A63H-033/10
International Patent Class (Additional): F16S-001/02
File Segment: EngPI

13/5/39 (Item 25 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2006 The Thomson Corp. All rts. reserv.

013423494 **Image available**
WPI Acc No: 2000-595437/200057
XRPX Acc No: N00-441043

Toy comprising a self-moving toy -figure with at least two parts
connected by a joint to allow capability of relative motion of the parts
Patent Assignee: GIOCHI PREZIOSI LUSSEMBURGO SA (GIOC-N)
Inventor: LA GRECA G
Number of Countries: 085 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1033159	A2	20000906	EP 2000200778	A	20000303	200057 B
WO 200051698	A1	20000908	WO 99IB379	A	19990304	200057
AU 9925412	A	20000921	AU 9925412	A	19990304	200065
			WO 99IB379	A	19990304	
IT 1309587	B	20020124	IT 99MI444	A	19990304	200239 N

Priority Applications (No Type Date): WO 99IB379 A 19990304; IT 99MI444 A 19990304

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1033159	A2	E	12	A63H-013/00	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
WO 200051698	A1	E		A63H-013/00	
Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW					
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW					
AU 9925412	A			A63H-013/00	Based on patent WO 200051698
IT 1309587	B			A63H-003/00	

Abstract (Basic): EP 1033159 A2

NOVELTY - A self-moving toy -figure (2) extends in the vertical direction and is in the form of a doll with upper and lower plastic parts (3,4) connected by a ball joint (5) permitting their relative movement. The joint is formed of a mushroom head (6) with a housing (7), allowing tilting of the upper part through a predetermined angle while preventing separation of the parts. Motor and articulation means (8,9) allow movement of the upper part, while a support table (24) has



two **sections** of **ferromagnetic** material to support the feet on magnets (26). A microphone (28) is **connected** to a command and control unit (29) controlling the figure according to received sound.

DETAILED DESCRIPTION - AN INDEPENDENT CLAIM is included for an assembly for animating two parts of a **toy** -figure.

USE - Animating two connected parts of a **toy** -figure.

ADVANTAGE - Producing fluid and graceful action of **toy** .

DESCRIPTION OF DRAWING(S) - The drawing is a diagrammatic perspective view of a **toy** according to the invention

Toy -figure (2)

Upper and lower parts (3,4)

Ball joint (5)

Joint parts (6,7)

Motor and articulation means (8,9)

Support table (24)

Magnets (26)

Microphone (28)

Command and control unit (29)

pp; 12 DwgNo 1/6

Title Terms: **TOY** ; COMPRISE; SELF; MOVE; **TOY** ; FIGURE; TWO; PART; CONNECT ; JOINT; ALLOW; CAPABLE; RELATIVE; MOTION; PART

Derwent Class: P36; W04

International Patent Class (Main): **A63H-003/00** ; **A63H-013/00**

File Segment: EPI; EngPI

13/5/48 (Item 34 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) 2006 The Thomson Corp. All rts. reserv.

011050549 **Image available**

WPI Acc No: 1997-028473/199703

XRPX Acc No: N97-024173

Mouth structure for dolls used to train infants - has upper and lower parts that are magnetically attached inside conical shaped box

Patent Assignee: UEDA T (UEDA-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8289937	A	19961105	JP 95132532	A	19950421	199703 B

Priority Applications (No Type Date): JP 95132532 A 19950421

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 8289937	A	7	A61N-002/08	

Abstract (Basic): JP 8289937 A

The mouth structure includes a conical shaped box (2) that has an opening part (1) at one side.

An upper part (3) and a lower part (4) are magnetically attached within the box.

ADVANTAGE - Simplifies mounting work in doll. Promotes mental growth of small child. Improves blood circulation of finger of child that is inserted in opening part.

Dwg.1/16

Title Terms: MOUTH; STRUCTURE; DOLL; TRAIN; INFANT; UPPER; LOWER; PART; MAGNETIC; ATTACH; CONICAL; SHAPE; BOX

Derwent Class: P34; P36; S05

International Patent Class (Main): A61N-002/08

International Patent Class (Additional): **A63H-003/00** ; **A63H-003/36**

(12)

File Segment: EPI; EngPI

13/5/49 (Item 35 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010889089 **Image available**

WPI Acc No: 1996-386040/199639

XRPX Acc No: N96-325383

Block toy which magnetically connect used in assembly of miniature building, robots, dolls, etc. - has one of blocks having main body having flat surface portions and magnetically holding portions formed on inner sides

Patent Assignee: STUFF CO LTD (STUF-N); STUFF MFG CO LTD (STUF-N)

Inventor: SHIRAISHI M

Number of Countries: 005 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 728506	A1	19960828	EP 95113941	A	19950905	199639 B
JP 8257252	A	19961008	JP 95250072	A	19950905	199650
US 5746638	A	19980505	US 95523491	A	19950901	199825
			US 96705687	A	19960829	
EP 728506	B1	19990519	EP 95113941	A	19950905	199924
DE 69509743	E	19990624	DE 609743	A	19950905	199931
			EP 95113941	A	19950905	

Priority Applications (No Type Date): JP 9543362 A 19950125

Cited Patents: US 2939243; US 3254440; US 3601921; US 4238905

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 728506	A1	E	10	A63H-033/04	
				Designated States (Regional):	DE FR GB
JP 8257252	A		6	A63H-033/10	
US 5746638	A		9	A63H-033/04	Cont of application US 95523491
EP 728506	B1	E		A63H-033/04	
				Designated States (Regional):	DE FR GB
DE 69509743	E			A63H-033/04	Based on patent EP 728506

Abstract (Basic): EP 728506 A

The **toy** is composed of blocks magnetically connectable to each other. At least one of the blocks comprises a block main body (1;11;21;31) having flat surface portions (2;12;22;32) with magnet holding portions (3;13;23;40;41;42) formed on inner sides of the respective flat surface portions.

Permanent magnets (4;34) are accommodated in the respective magnet holding portions for rotation about imaginary axes extending at right angles relative to the flat surface portions corresponding to the magnet holding portions. Each permanent magnet is a plate-shaped or disk-shaped permanent magnet (34).

ADVANTAGE - Permits connection of plural blocks in desired direction without limitation to direction of connection and enables to create variety of connected structures.

Dwg.5/7

Title Terms: BLOCK; **TOY**; MAGNETIC; CONNECT; ASSEMBLE; MINIATURE; BUILD; ROBOT; DOLL; ONE; BLOCK; MAIN; BODY; FLAT; SURFACE; PORTION; MAGNETIC; HOLD; PORTION; FORMING; INNER; SIDE

Derwent Class: P36

International Patent Class (Main): **A63H-033/04** ; **A63H-033/10**

International Patent Class (Additional): H01F-007/02

File Segment: EngPI

13

13/5/50 (Item 36 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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010869045 **Image available**
WPI Acc No: 1996-365996/199637
XRPX Acc No: N96-308400

Coupling device of toy vehicle - in which first and second connecting pieces with storage part that stores permanent magnet , are magnetically connected

Patent Assignee: BANDAI CO (BAND-N)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8173642	A	19960709	JP 94337928	A	19941226	199637 B

Priority Applications (No Type Date): JP 94337928 A 19941226
Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 8173642	A	5	A63H-019/18	

Abstract (Basic): JP 8173642 A

The device has a first connecting piece (3) which is provided for a movable state in one end of a vehicle (7). A second connecting piece (5) is connected with the first connecting piece for a movable state in one of other vehicle (9). In each tip of a storage part (13,15) of first and second connecting **piece** , a permanent **magnet** (17,18) is stored respectively.

Each storage part has a pin which retains the permanent magnet rotatably piercing to a through hole in each permanent magnet. Each storage part individually holds an non-magnetic body and brings connecting piece close to the next connecting piece.

ADVANTAGE - Connects lot of vehicles easily. Holds permanent **magnet** in first and second **connecting piece** rotatably according to **magnetic** action and gives degree of freedom to direction of **connection** of each **vehicle** . Achieves sense of excitement.

Dwg.1/5

Title Terms: COUPLE; DEVICE; **TOY** ; VEHICLE; FIRST; SECOND; CONNECT; PIECE; STORAGE; PART; STORAGE; PERMANENT; MAGNET; MAGNETIC; CONNECT
Derwent Class: P36
International Patent Class (Main): **A63H-019/18**
File Segment: EngPI

13/5/52 (Item 38 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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008733273 **Image available**
WPI Acc No: 1991-237289/199132
XRPX Acc No: N91-181045

Diet aid doll - comprises pig shape with attachment magnets and portion inflatable when further portion is pressed

Patent Assignee: NAHAS G H (NAHA-I)
Inventor: NANAS G H
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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US 5033985 A 19910723 US 90551154 A 19900711 199132 B

Priority Applications (No Type Date): US 90551154 A 19900711

Abstract (Basic): US 5033985 A

The device is comprised of the figure of a male pig and a female pig with a written message at the base of the dolls. The dolls are attached to a refrigerator by magnetic strips on their backside.

When a person presses the nose of the pig doll, a portion of the doll is inflated to a greater size. This expansion of the pig doll is to visually remind people that their own bodys will expand in size when they continually over-eat. (7pp Dwg.No.2,6/6)

Title Terms: DIET; AID; DOLL; COMPRISE; PIG; SHAPE; ATTACH; MAGNET; PORTION ; INFLATE; PORTION; PRESS

Derwent Class: P36

International Patent Class (Additional): A63H-003/06

File Segment: EngPI

13/5/61 (Item 47 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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003140220

WPI Acc No: 1981-014648/198129

Dress changing magnetic doll - has magnetic body with attachable garment parts

Patent Assignee: ALMAY G (ALMA-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
HU 20096	T	19810627				198129 B

Priority Applications (No Type Date): HU 801327 A 19800527

Title Terms: DRESS; CHANGE; MAGNETIC; DOLL; MAGNETIC; BODY; ATTACH; GARMENT ; PART

Derwent Class: P36

International Patent Class (Additional): A63H-003/08 ; A63H-033/26

File Segment: EngPI

13/5/64 (Item 50 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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001745302

WPI Acc No: 1977-J1805Y/197740

Wooden modular toy vehicle - forms constructional toy which is built up from wooden blocks and discs connected by permanent magnetic fasteners

Patent Assignee: NAKAMURA T (NAKA-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 2612382	A	19770929				197740 B

Priority Applications (No Type Date): DE 2612382 A 19760324

Abstract (Basic): DE 2612382 A

The wooden **toy** vehicle is built up from blocks of wood of the same section but of different length (1) and circular wooden plates

(4). The pieces are fitted together with magnetic **connectors** . These **connectors** consist of a plastics housing (10) containing a permanent magnetic ferrite core (8) with two magnetic shoes (9). The housing is glued into a hole in the wooden block (4).

The magnet connects to a revolvable plate (6) held in a cutout (18) in a second block (1). The plate revolves round the screw (17) which fixes it to the block (1). To improve the connection, the plate (6) can be provided with a raised rim which fits round the magnet shoes (9) thus avoiding any sliding of the parts

Title Terms: WOOD; MODULE; **TOY** ; VEHICLE; FORM; CONSTRUCTION; **TOY** ; BUILD ; UP; WOOD; BLOCK; DISC; CONNECT; PERMANENT; MAGNETIC; FASTEN

Derwent Class: P36

International Patent Class (Additional): **A63H-033/10**

File Segment: EngPI

13/5/65 (Item 51 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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001730207

WPI Acc No: 1977-G6701Y/197732

Doll body with magnet and pole pieces - has several segments which are coupled operably but removably to each other

Patent Assignee: SATOH Y (SATO-I); TAKARA CO LTD (TAKH)

Number of Countries: 003 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4038775	A	19770802				197732 B
CA 1021161	A	19771122				197749
GB 1511743	A	19780524				197821

Priority Applications (No Type Date): JP 74U32236 U 19741031

Abstract (Basic): US 4038775 A

The doll has a number of segments which are coupled operably but removably to each other. Each segment has a joint portion or portions which provides an articulation or a joint in combination with a counterpart joint portion or portions of another segment, when assembled.

The articulation or joint comprises a magnet built in one segment, and a counterpart joint portion of a magnetic material which is part of another segment. The magnet comprises a permanent magnet and a pair of pole pieces formed with extension portions which provide magnetic gaps to the counterpart portions of another segment, defining joint positions.

Title Terms: DOLL; BODY; MAGNET; POLE; PIECE; SEGMENT; COUPLE; OPERATE; REMOVE

Derwent Class: P36; Q62

International Patent Class (Additional): **A63H-003/46 ; A63H-033/26 ; F16C-011/06**

File Segment: EngPI

13/5/68 (Item 54 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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001485548

WPI Acc No: 1976-E8461X/197621

Two dimensional doll house - has surface printed side members and magnetic centre member

Patent Assignee: PAYTON J A L (PAYT-I)

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 3955307	A	19760511				197621 B
CA 1005986	A	19770301				197711

Priority Applications (No Type Date): US 74437869 A 19740130

Abstract (Basic): US 3955307 A

The improved hanging doll house, is essentially two-dimensional, but gives a child the impression that the doll house is three-dimensional. The doll house comprises a magnetically responsive centre panel having peripheral edges which define an outline of a building interior and being surface-printed to three-dimensionally illustrate interior rooms in the building. Planar, magnetically responsive pieces, surface-printed so as to illustrate three-dimensionally **pieces** of furniture, are **attached magnetically** to the surface of the centre member to illustrate completed interior rooms. Side members may additionally be hingedly **attached** to the centre member, which are swingable in front of the centre panel to close it, and away from and along side of the centre panel to open it.

Title Terms: TWO; DIMENSION; DOLL; HOUSE; SURFACE; PRINT; SIDE; MEMBER; MAGNETIC; CENTRE; MEMBER

Derwent Class: P36

International Patent Class (Additional): **A63H-033/00**

File Segment: EngPI

?

21/5/4 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015458179 **Image available**

WPI Acc No: 2003-520321/200349

XRPX Acc No: N03-413190

Coupling device for attaching train toy, has magnet holder having front and rear surfaces with lower and upper spindles supported by attachment frame, and which accommodate magnet

Patent Assignee: BANDAI CO (BAND-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2003190656	A	20030708	JP 2001398074	A	20011227	200349 B

Priority Applications (No Type Date): JP 2001398074 A 20011227

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2003190656	A	4	A63H-019/18	

Abstract (Basic): JP 2003190656 A

NOVELTY - The device has an attachment frame attached to the rear or front **part** of **vehicles** (A,B), and a **magnet** holder (11) rotatably **attached** to the **attachment** frame. The **magnet** holder has a front surface and a rear surface. A **magnet** (20) is accommodated inside the **magnet** holder. The lower and upper spindles of the front and rear surfaces are supported at the attachment frame.

USE - For attaching tray toy.

ADVANTAGE - Ensures stable connection of two vehicles while preventing breakage by direction contact of **magnets**.

DESCRIPTION OF DRAWING(S) - The figure shows the perspective diagram of the use state of the coupling device.

Magnet holder (11)

Magnet (20)

Vehicles (A,B)

pp; 4 DwgNo 3/4

Title Terms: COUPLE; DEVICE; ATTACH; TRAIN; TOY; **MAGNET** ; HOLD; FRONT; REAR; SURFACE; LOWER; UPPER; SPINDLE; SUPPORT; ATTACH; FRAME; ACCOMMODATE ; **MAGNET**

Derwent Class: P36

International Patent Class (Main): **A63H-019/18**

International Patent Class (Additional): **A63H-033/26**

File Segment: EngPI

21/5/13 (Item 12 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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002365215

WPI Acc No: 1980-H1676C/198033

Multipart electrically driven toy aircraft - in which front part of fuselage is separable from main assembly to provide shuttle craft

Patent Assignee: TAKARA CO LTD (TAKH)

Inventor: OGAWA I

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4214402	A	19800729				198033 B



Priority Applications (No Type Date): US 78950147 A 19781010

Abstract (Basic): US 4214402 A

The toy plane has a fuselage comprising at least three parts. A front part of the fuselage simulates a cockpit and is also configured to simulate a **vehicle** having wheels. The front cockpit **section** is mounted to the centre section by a spring loaded mechanism which is capable of ejecting or launching the front **section** as a **vehicle**.

The centre section houses an electric motor connected to a wheel assembly on the bottom of the section. A rear section of the fuselage with operator controls is **attached by magnetic couplers** to the centre section. The rear action houses batteries to power the motor and a switch.

Title Terms: MULTIPART; ELECTRIC; DRIVE; TOY; AIRCRAFT; FRONT; PART; FUSELAGE; SEPARATE; MAIN; ASSEMBLE; SHUTTLE; CRAFT

Derwent Class: P36; W04

International Patent Class (Additional): **A63H-011/10 ; A63H-017/00 ; A63H-033/06**

File Segment: EPI; EngPI

21/5/14 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2006 The Thomson Corp. All rts. reserv.

002172054

WPI Acc No: 1979-K2002B/197943

Combined toy doll and vehicle - has removable appendages allowing attachment of carriage wheels and magnetic spherical ball

Patent Assignee: TAKARA CO LTD (TAKH)

Inventor: OGAWA I

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4170840	A	19791016				197943 B

Priority Applications (No Type Date): US 78881016 A 19780224

Abstract (Basic): US 4170840 A

The toy assembly includes an articulated **doll** and subcomponent **parts** capable of forming a **vehicle**. The doll can represent a humanoid with removable appendages. A front carriage member supporting a pair of wheels can be removably attached to the legs of the doll while a rear carriage member can be removably attached to the back of the doll body.

A supplemental connector member can be attached directly to the front and rear carriage members to complete the vehicle. A **magnetic ball** can be provided in a cavity of the doll body for positioning by a **magnetic wand** adjacent an aperture communicating with the cavity.

Title Terms: COMBINATION; TOY; DOLL; VEHICLE; REMOVE; APPENDAGE; ALLOW; ATTACH; CARRIAGE; WHEEL; **MAGNETIC** ; SPHERE; BALL

Derwent Class: P36

International Patent Class (Additional): **A63H-003/16**

File Segment: EngPI

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(19)

28/5/5 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 The Thomson Corp. All rts. reserv.

016966755 **Image available**

WPI Acc No: 2005-291067/200530

XRPX Acc No: N05-238907

Face variable toy such as doll, toy animal, has magnet for detachably
connecting front and rear portions

Patent Assignee: TOKYO UNIQUE KK (TOKU-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2005110889	A	20050428	JP 2003347786	A	20031007	200530 B

Priority Applications (No Type Date): JP 2003347786 A 20031007

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2005110889	A		7 A63H-003/16	

Abstract (Basic): JP 2005110889 A

NOVELTY - The head of toy is divided into front portion (D) and rear portion which are detachably connected through magnet, so front portion of different expression and face is exchanged and attached to the rear portion as desired.

USE - Toy such as doll, toy animal and for use in toy motor vehicle and train with variable face, for children.

ADVANTAGE - By using the magnet, the front portion of the head is attached and detached easily and the deviation of the front and rear portions of the head is prevented and increases joining strength while usage.

DESCRIPTION OF DRAWING(S) - The figure shows a side view of the head portion of the toy.

neck(13) hair (5)
ear (14)
jaw (15)
separation line (16)
front portion (D)
pp; 7 DwgNo 8/9

Title Terms: FACE; VARIABLE; TOY; DOLL; TOY; ANIMAL; MAGNET; DETACH;
CONNECT; FRONT; REAR; PORTION

Derwent Class: P36

International Patent Class (Main): A63H-003/16

International Patent Class (Additional): A63H-003/36 ; A63H-003/44 ;
A63H-003/48

File Segment: EngPI

28/5/6 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 The Thomson Corp. All rts. reserv.

010989916 **Image available**

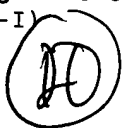
WPI Acc No: 1996-486865/199649

Related WPI Acc No: 1996-269649

XRPX Acc No: N96-410218

Toy vehicle formed as model and/or land-, water-, air-vehicle - has parts
of toy, corresponding to original parts of original vehicle, exchangeable
against corresp. parts and/or against other parts

Patent Assignee: HARTMANN M (HART-I)



Inventor: HARTMANN M

Number of Countries: 075 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 29611499	U1	19961017	DE 96U2011499	U	19960702	199649 B
WO 9736659	A1	19971009	WO 97EP1572	A	19970327	199746
AU 9725067	A	19971022	AU 9725067	A	19970327	199808
DE 19780270	T	19990128	DE 1080270	A	19970327	199910
			WO 97EP1572	A	19970327	

Priority Applications (No Type Date): DE 96U2005777 U 19960328

Cited Patents: DE 2805138; FR 2227886; FR 746818; US 4349984

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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DE 29611499	U1		29	A63H-033/10	
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WO 9736659	A1	G	45	A63H-017/00	
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Designated States (National): AL AM AT AU AZ BB BG BR BY CA CH CN CU CZ
DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD
MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ
VN YU

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GH GR IE IT
KE LS LU MC MW NL OA PT SD SE SZ UG

AU 9725067	A			A63H-017/00	Based on patent WO 9736659
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DE 19780270	T			A63H-017/00	Based on patent WO 9736659
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Abstract (Basic): DE 29611499 U

Parts (6-16) of the toy (1), which correspond to original parts of the original vehicle, are exchangeable against corresp. parts and/or against other parts. The toy has additional parts, which correspond to original parts of the original vehicle. The exchangeable **parts** and/or additional **parts** are releasably **connected** with the toy by means of **magnet** and/or insert and/or screw **connections**.

The exchangeable parts are bumpers (12,13), bumpers with integrated spoiler, sport seat (Recaro seat (RTM)), steering wheel, Benetton (RTM) steering wheel, head supports, loudspeaker, radios, tyres, rims (6,7), headlamps, aerials, exhaust, mudguards (16), rear lights, licensing and number plates, shock absorbers, springs, running boards, engines, windscreen wipers, additional instruments, front and rear arm rests.

ADVANTAGE - The model and/or toy can be built up in accordance with the desires of the user and is simple to handle, even for children.

Dwg.1/4

Title Terms: TOY; VEHICLE; FORMING; MODEL; LAND; WATER; AIR; VEHICLE; PART;
TOY; CORRESPOND; ORIGINAL; PART; ORIGINAL; VEHICLE; EXCHANGE; CORRESPOND;
PART; PART

Derwent Class: P36

International Patent Class (Main): **A63H-017/00** ; **A63H-033/10**

International Patent Class (Additional): **A63H-017/26** ; **A63H-033/04**

File Segment: EngPI

28/5/7 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2006 The Thomson Corp. All rts. reserv.

010772696 **Image available**

WPI Acc No: 1996-269649/199628

Related WPI Acc No: 1996-486865

XRPX Acc No: N96-226642

Model and/or toy land, water, air and/or space vehicle for child - has parts which correspond to parts of original vehicle exchangeable against

21

corresp. parts and/or against other parts

Patent Assignee: HARTMANN M (HART-I)

Inventor: HARTMANN M

Number of Countries: 075 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 29605777	U1	19960605	DE 96U2005777	U	19960328	199628 B
WO 9736659	A1	19971009	WO 97EP1572	A	19970327	199746

Priority Applications (No Type Date): DE 96U2005777 U 19960328; DE 96U2011499 U 19960702

Cited Patents: DE 2805138; FR 2227886; FR 746818; US 4349984

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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DE 29605777	U1		38	A63H-017/00	
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WO 9736659	A1	G	45	A63H-017/00	
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Designated States (National): AL AM AT AU AZ BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN YU

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GH GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG

Abstract (Basic): DE 29605777 U

Parts (6-16) of the toy (1), which correspond to original parts of the original vehicle, are exchangeable against corresp. parts and/or against other parts. The toy has additional parts, which correspond to original parts of the original vehicle. The exchangeable **parts** and/or additional **parts** are releasably **connected** with the toy by means of **magnet** and/or insert and/or screw **connections**.

The exchangeable parts are bumpers (12,13), bumpers with integrated spoiler, sport seat (Recaro seat (RTM)), steering wheel, Benetton (RTM) steering wheel, head supports, loudspeaker, radios, tyres, rims (6,7), headlamps, aerials, exhaust, mudguards (16), rear lights, licensing and number plates, shock absorbers, springs, running boards, engines, windscreen wipers, additional instruments, front and rear arm rests.

ADVANTAGE - The model and/or toy can be built up in accordance with the desires of the user and is simple to handle, even for children.

Dwg.1/11

Title Terms: MODEL; TOY; LAND; WATER; AIR; SPACE; VEHICLE; CHILD; PART; CORRESPOND; PART; ORIGINAL; VEHICLE; EXCHANGE; CORRESPOND; PART; PART

Derwent Class: P36

International Patent Class (Main): A63H-017/00

International Patent Class (Additional): A63H-017/26 ; A63H-033/04

File Segment: EngPI

28/5/8 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2006 The Thomson Corp. All rts. reserv.

010382821 **Image available**

WPI Acc No: 1995-284135/199538

XRPX Acc No: N95-216312

Method of assembling model ships or figures - involves segments inserted inside containers with restricted openings

Patent Assignee: PIETSCHMANN H (PIET-I)

Inventor: PIETSCHMANN H

Number of Countries: 001 Number of Patents: 001

Patent Family:



Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4404246	A1	19950817	DE 4404246	A	19940210	199538 B

Priority Applications (No Type Date): DE 4404246 A 19940210

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 4404246	A1		9	A63H-033/10	

Abstract (Basic): DE 4404246 A

The model ship (1-8) is inserted into the bottle in dismantled **sections** and is assembled along adjacent **join** surfaces. **Magnetic couplings** carry out the **joining** process, in separate or combined operations.

Other models can be assembled in containers made of glass or other material. The joining process is executed autonomously or from an external energy source inside containers difficult to get into.

USE/ADVANTAGE - Model ships or other figures, pref. of prefabricated plastics segments can be inserted into bottles or other containers easily by children.

Dwg.1/5

Title Terms: METHOD; ASSEMBLE; MODEL; SHIP; FIGURE; SEGMENT; INSERT; CONTAINER; RESTRICT; OPEN

Derwent Class: P36

International Patent Class (Main): **A63H-033/10**

File Segment: EngPI

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(23)

30/5/6 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 The Thomson Corp. All rts. reserv.

013974075 **Image available**

WPI Acc No: 2001-458288/200150

XRPX Acc No: N01-339653

Rag-doll with internally mounted magnets, has magnets installed in various body parts to enable arrangement for doll to take up different gestures

Patent Assignee: KRUG M (KRUG-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 20005880	U1	20001214	DE 2000U2005880	U	20000330	200150 B

Priority Applications (No Type Date): DE 2000U2005880 U 20000330

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 20005880	U1		5	A63H-003/02	

Abstract (Basic): DE 20005880 U1

NOVELTY - A doll, preferably a rag doll, is fitted with magnets in its arms, legs and hands. This enables the doll to **adhere** to metal **parts**, and to adopt gestures such as covering its eyes with its hands.

USE - As a doll/puppet having concealed fitment of one or more magnets in various body zones, such as in the hands and/or feet, under the eyes, and in the mouth, enabling closing the mouth. A cat-doll can have a magnet in its tail.

ADVANTAGE - Concealment of the magnets in the doll's body parts avoids spoiling the visual appearance of the doll, while adopting desired gestures.

DESCRIPTION OF DRAWING(S) - A doll figure and a view of its mouth are shown..

Magnets (M)

Rag doll (P)

Cat doll head (K)

pp; 5 DwgNo 1, 2/2

Title Terms: RAG; DOLL; INTERNAL; MOUNT; MAGNET; MAGNET; INSTALLATION; VARIOUS; BODY; PART; ENABLE; ARRANGE; DOLL; UP

Derwent Class: P36

International Patent Class (Main): **A63H-003/02**

International Patent Class (Additional): **A63H-003/36**

File Segment: EngPI

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35/5/5 (Item 5 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2006 JPO & JAPIO. All rts. reserv.

05006659 **Image available**
ACCESSORY TOY

PUB. NO.: 07-299259 [JP 7299259 A]
PUBLISHED: November 14, 1995 (19951114)
INVENTOR(s): TOMATSU TSUTOMU
APPLICANT(s): PILOT INK CO LTD [403379] (A Japanese Company or Corporation)
, JP (Japan)
APPL. NO.: 06-114583 [JP 94114583]
FILED: April 29, 1994 (19940429)
INTL CLASS: [6] A63H-033/42 ; A63H-033/26
JAPIO CLASS: 30.2 (MISCELLANEOUS GOODS -- Sports & Recreation)

ABSTRACT

PURPOSE: To provide the accessory toy capable of easily and interchangeably mounting the decoration elements different in color and shape on a base comprising the decoration body and assembling various decoration bodies to be amused.

CONSTITUTION: This accessory toy 1 consists of a base 2 constituting the decoration body and a decoration element 3 to be interchangeably and detachably mounted on the base 2 by magnetic power 5 and/or a engagement means 6.

35/5/6 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 The Thomson Corp. All rts. reserv.

017446019 **Image available**
WPI Acc No: 2005-769698/200578
XRPX Acc No: N05-635479

Stuffed toy for children, has magnet and head, appendage or tail
removably connected to plush main portion

Patent Assignee: DEUTSCHMAN M A (DEUT-I)
Inventor: DEUTSCHMAN M A
Number of Countries: 110 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 2005107916	A1	20051117	WO 2005US14942	A	20050429	200578 B

Priority Applications (No Type Date): US 2004521464 P 20040429

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 2005107916	A1	E	15	A63H-033/26	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ
CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID
IL IN IS JP KE KG KM KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX
MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR
TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG BW CH CY CZ DE DK EA EE ES FI FR
GB GH GM GR HU IE IS IT KE LS LT LU MC MW MZ NA NL OA PL PT RO SD SE SI
SK SL SZ TR TZ UG ZM ZW

Abstract (Basic): WO 2005107916 A1

NOVELTY - The toy has a magnet (10) connected to a plush main
portion (2). The head, appendage or the tail of the toy is connected to

25

the plush.

USE - Stuffed toy for children.

ADVANTAGE - Enables detachable attachment of the head or tail.

Reduces the risk of damage due to wear and tear. The parts of the toy are held and maintained safely.

DESCRIPTION OF DRAWING(S) - The figure shows a side view of the toy.

appendage (1)

main portion (2)

magnet (10)

stud (12)

stud receptacle (22)

pp; 15 DwgNo 7/7

Title Terms: STUFF; TOY; CHILD; MAGNET; HEAD; APPENDAGE; TAIL; REMOVE; CONNECT; PLUSH; MAIN; PORTION

Derwent Class: P36

International Patent Class (Main): A63H-033/26

File Segment: EngPI

35/5/7 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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017230632 **Image available**

WPI Acc No: 2005-554257/200556

XRPX Acc No: N05-454411

Magnetic toy has arm having figure attachment portion for removable attachment of figure and two configurations for attachment and removal of figure to arm when arm is in first and second positions, respectively

Patent Assignee: FISCHER T (FISC-I); MARVEL CHARACTERS INC (MARV-N)

Inventor: FISCHER T

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20050181704	A1	20050818	US 2004777550	A	20040212	200556 B
US 7066783	B2	20060627	US 2004777550	A	20040212	200643

Priority Applications (No Type Date): US 2004777550 A 20040212

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 20050181704	A1	18	A63H-003/52		
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US 7066783	B2		A63H-013/00		
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Abstract (Basic): US 20050181704 A1

NOVELTY - The toy (2) has a figure having an arm attachment portion (12), and figure transport units (6,8,10). Each transport unit has a body (16), and an arm (18) movable between two positions with respect to the body. The arm has a figure attachment portion (22) for removable attachment of figure and having two configurations for attachment and removal of figure to arm when arm is in two positions, respectively.

USE - Magnetic toy.

ADVANTAGE - Provides a toy having a figure which can be transported between multiple separate moving components.

DESCRIPTION OF DRAWING(S) - The figure is the perspective view of the toy showing a figure being transported on a first figure transport unit.

Toy (2)

Figure transport units (6,8,10)

Arm attachment portion (12)

Body (16)

26

Arm (18)
Figure attachment portion (22)
pp; 18 DwgNo 1/12
Title Terms: MAGNETIC; TOY; ARM; FIGURE; ATTACH; PORTION; REMOVE; ATTACH;
FIGURE; TWO; CONFIGURATION; ATTACH; REMOVE; FIGURE; ARM; ARM; FIRST;
SECOND; POSITION; RESPECTIVE
Derwent Class: P36
International Patent Class (Main): A63H-003/52 ; A63H-013/00 ;
A63H-013/12
International Patent Class (Additional): A63H-003/00 ; A63H-003/18
File Segment: EngPI

35/5/9 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 The Thomson Corp. All rts. reserv.

016769472 **Image available**
WPI Acc No: 2005-093748/200511
XRPX Acc No: N05-081998

**Manipulative toy has two sets of complementary magnetic and ribbed
elements for removably attaching appendages to body at respective
planar surfaces and for limiting rotational and linear movements of
appendages relative to body**

Patent Assignee: K & M INT INC (KMIT-N); GRASELA M (GRAS-I); KARECKI J
(KARE-I); PILLAI G (PILL-I); YAGER M (YAGE-I)

Inventor: GRASELA M; KARECKI J; PILLAI G; YAGER M

Number of Countries: 033 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1500417	A1	20050126	EP 2003254665	A	20030725	200511 B
US 20050020179	A1	20050127	US 2003627031	A	20030725	200511 N
CA 2436191	A1	20050125	CA 2436191	A	20030725	200515 N

Priority Applications (No Type Date): EP 2003254665 A 20030725; US
2003627031 A 20030725; CA 2436191 A 20030725

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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EP 1500417	A1	E	13 A63H-003/16	
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Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

US 20050020179	A1	11	A63H-003/16	
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CA 2436191	A1	E	A63H-033/00	
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Abstract (Basic): EP 1500417 A1

NOVELTY - Two sets of complementary magnetic elements (22,24) are arranged at the body (12) and the appendages (14) for removably attaching the appendages to the body at respective planar surfaces. Two sets of complementary ribbed elements (36,38) are arranged at the body and the appendages for limiting the rotational and linear movements of the appendages relative to the body.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for method for inspiring imagination and creativity using manipulative toys.

USE - Manipulative toy with magnetic attachments.

ADVANTAGE - Allows the user to utilize the appendages from a variety of different configurations of animals so as to create new species of animals representing composite arms, legs, heads, tails and bodies.

DESCRIPTION OF DRAWING(S) - The figure shows an exploded front view of the manipulative toy.

body (12)
appendages (14)
complementary magnetic elements (22,24)
complementary ribbed elements (36,38)
pp; 13 DwgNo 2/6

Title Terms: MANIPULATE; TOY; TWO; SET; COMPLEMENTARY; MAGNETIC; RIB;
ELEMENT; REMOVE; ATTACH; APPENDAGE; BODY; RESPECTIVE; PLANE; SURFACE;
LIMIT; ROTATING; LINEAR; MOVEMENT; APPENDAGE; RELATIVE; BODY

Derwent Class: P36

International Patent Class (Main): A63H-003/16 ; A63H-033/00

International Patent Class (Additional): A63H-003/00 ; A63H-033/26

File Segment: EngPI

35/5/10 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015365747 **Image available**

WPI Acc No: 2003-426685/200340

XRFX Acc No: N03-341003

Educational toy for child, has spherical body divided into multiple sections which are detachably joined with magnets

Patent Assignee: NAGAHARA K (NAGA-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2003144773	A	20030520	JP 2001402280	A	20011116	200340 B

Priority Applications (No Type Date): JP 2001402280 A 20011116

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2003144773	A		3	A63H-033/00	

Abstract (Basic): JP 2003144773 A

NOVELTY - A spherical main body (1), made of synthetic resin foam, is divided into multiple sections (31-38). A magnet (4) is integrated to each section of the spherical main body. The sections of the spherical main body are detachably joined with the magnets.

USE - For child.

ADVANTAGE - Gives delight to a child, and enhances psychological effect of toy.

DESCRIPTION OF DRAWING(S) - The figure shows the cross-sectional view of educational toy.

Spherical main body (1)

Multiple sections (31-38)

Magnet (4)

pp; 3 DwgNo 3/4

Title Terms: EDUCATION; TOY; CHILD; SPHERE; BODY; DIVIDE; MULTIPLE; SECTION ; DETACH; JOIN; MAGNET

Derwent Class: P36; P85

International Patent Class (Main): A63H-033/00

International Patent Class (Additional): A63H-033/10 ; G09B-023/18

File Segment: EngPI

35/5/11 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012663386 **Image available**



WPI Acc No: 1999-469491/199940

XRPX Acc No: N99-350651

Connection structure for components for an assembled toy

Patent Assignee: TAKARA CO LTD (TAKH)

Inventor: OHNO K; TAKAYA M; KOUJIN O; MOTOKI T

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
AU 707953	B	19990722	AU 9923834	A	19990416	199940 B
SG 75171	A1	20000919	SG 992146	A	19990507	200055

Priority Applications (No Type Date): JP 99U509 U 19990205

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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AU 707953	B		23	A63H-033/08	
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SG 75171	A1			A63H-033/08	
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Abstract (Basic): AU 707953 B

NOVELTY - The connection structure includes at least one connection section provided on each of the components and constructed so as to permit each of the components to be interchangeably connected to at least one of the remaining components.

DETAILED DESCRIPTION - A connection structure for components for an assembled toy is capable of ensuring firm coupling between the components without deteriorating advantages due to magnetic coupling. The connection structure is adapted to couple the components to each other provide the toy with a predetermined form. The connection structure includes at least one connection section provided on each of the components and constructed so as to permit each of the **components** to be **interchangeably** connected to at least one of the remaining components. The connection sections of the components each are made of a material selected from the group consisting of a **magnetic** material and a nonmagnetic material. The connection sections include first connection sections (a) each made of a **magnetic** material and provided in the form of a a spherical element (6) in a manner to project from a surface of the component, second connection sections (b) each adapted to be coupled to the first connection section (a) by **magnetic** force, and third connection sections (c) each adapted to be pressedly fitted on the first connection section (a). The components each are provided with at least one of the first, second and third connections (a,b,c).

USE - Used as a toy.

ADVANTAGE - Provides a connection structure for components for a toy which is capable of ensuring firm coupling between the components without deteriorating advantages due to magnetic coupling.

DESCRIPTION OF DRAWING(S) - The diagram shows a perspective view showing an assembled toy to which an embodiment of a connection structure.

pp; 23 DwgNo 1/8

Title Terms: CONNECT; STRUCTURE; COMPONENT; ASSEMBLE; TOY

Derwent Class: P36

International Patent Class (Main): **A63H-033/08**

International Patent Class (Additional): **A63H-003/16**

File Segment: EngPI

35/5/12 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2006 The Thomson Corp. All rts. reserv.

012497675 **Image available**

29

WPI Acc No: 1999-303779/199926

XRPX Acc No: N99-227577

Model car with parts detached during collisions

Patent Assignee: CARRERA CENTURY TOYS (CARR-N); STS RACING GMBH (STSR-N)

Inventor: MALEIKA H

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19750436	A1	19990520	DE 1050436	A	19971114	199926 B
DE 29724498	U1	20010906	DE 1050436	A	19971114	200159
			DE 97U2024498	U	19971114	

Priority Applications (No Type Date): DE 1050436 A 19971114; DE 97U2024498 U 19971114

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 19750436	A1		5	A63H-017/26	
DE 29724498	U1			A63H-017/02	Application no. DE 1050436

Abstract (Basic): DE 19750436 A1

NOVELTY - The model car has a chassis with engine and wheels and a body, which detaches partially during a collision. The detachable part is held on the **vehicle** by **magnetic** force, and is shaped like a spare **part** for the **vehicle**. The **detachable part** is especially a wing (9,10,11), bonnet (2), bumper (1), door (5), roof (3), mirror (4), spoiler (8), or headlight (12).

DETAILED DESCRIPTION - The **magnet** is positioned on the part and is a button **magnet** or a band-shaped plastic **magnet**. The detachable part is retained on the **vehicle** via a joint or wire after the **magnetic** force is released.

USE - Model car on model car racing tracks.

ADVANTAGE - Simple means to detach car parts during collisions, and to reattach them.

DESCRIPTION OF DRAWING(S) - The drawing shows a model car.

Bumper (1)

Bonnet (2)

Roof (3)

Mirror (4)

Door (5)

Wings (9,10,11)

Headlight (12)

pp; 5 DwgNo 1/1

Title Terms: MODEL; CAR; PART; DETACH; COLLIDE

Derwent Class: P36

International Patent Class (Main): A63H-017/02 ; A63H-017/26

International Patent Class (Additional): A63H-017/00

File Segment: EngPI

35/5/13 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2006 The Thomson Corp. All rts. reserv.

010089519 **Image available**

WPI Acc No: 1994-357232/199444

XRPX Acc No: N94-280000

Magnetic toys, etc. for infants - comprises magnets on toy limbs to either attract or repel various toy designs

Patent Assignee: BUTT S L (BUTT-I)

Inventor: BUTT S L

(3)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5362271	A	19941108	US 91782088	A	19911024	199444 B

Priority Applications (No Type Date): US 91782088 A 19911024

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5362271	A	9	A63H-033/26	

Abstract (Basic): US 5362271 A

The toys are provided singly or in pairs. They have limbs, such as arms, or other appendages such as tails or trunks, extending from their bodies, the limbs or appendages being provided with connection **elements**, such as **magnets** (14), for **removably** attaching limbs together to simulate hand holding or to **attach** to **metal** surfaces or to pick up metal objects.

The magnets can be arranged so that they will repel each other so that certain limbs or appendages will not attach to each other. The toys can be manipulated by the thumb and fingers, such as in the form of recesses provided in the clothes or by strings such as in the form of a marionette.

Dwg.1,17/2

0

Title Terms: MAGNETIC; TOY; INFANT; COMPRISE; MAGNET; TOY; LIMB; ATTRACT; REPEL; VARIOUS; TOY; DESIGN

Derwent Class: P36

International Patent Class (Main): **A63H-033/26**

File Segment: EngPI

35/5/16 (Item 11 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2006 The Thomson Corp. All rts. reserv.

003106733

WPI Acc No: 1981-L6781D/198145

Demolition derby game using toy vehicles - has spring loaded ram passing through each vehicle manually operated by magnetic manipulations

Patent Assignee: BEAVER B (BEAV-I)

Inventor: FITZGERALD S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4295292	A	19811020				198145 B

Priority Applications (No Type Date): US 79102436 A 19791211

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 4295292	A	5		

Abstract (Basic): US 4295292 A

The vehicles are positioned on a game board and driven by manually operated magnetic manipulators positioned beneath the board. One vehicle is operated by each player. Each vehicle includes several identical **removable elements**, which are **removable** upon impact with another **vehicle**.

The removable elements fit into grooves in the vehicle and are positioned about opposite sides of shafts with spring elements and disc portions at their ends. The impact of a vehicle with another vehicle will cause a shaft to move and force one of the removable elements out

31

of its groove and onto the playing surface.
Title Terms: DEMOLISH; GAME; TOY; VEHICLE; SPRING; LOAD; RAM; PASS; THROUGH
; VEHICLE; MANUAL; OPERATE; MAGNETIC; MANIPULATE
Derwent Class: P36
International Patent Class (Additional): A63H-011/10
File Segment: EngPI

35/5/17 (Item 12 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 The Thomson Corp. All rts. reserv.

002309320
WPI Acc No: 1980-B5752C/198007
**Toy horse with pivotable head - includes magnet assembly in main body for
securing removable accessory parts**
Patent Assignee: TAKARA CO LTD (TAKH)
Inventor: OGAWA I
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
US 4186515 A 19800205 198007 B

Priority Applications (No Type Date): US 77863213 A 19771222

Abstract (Basic): US 4186515 A

The toy horse assembly has a body member contg. a pivotal connection that is rotatively attached to a joint assembly configured and positioned on the body member to represent respectively the withers and breast of the horse. A removable appendage member configured and operatively positioned on the joint assembly represents the horse's neck and head.

The appendage member can be removed and replaced with the upper torso of a humanoid robot. A magnet assembly in the body of the horse is additionally capable of securing removable accessory parts.

Title Terms: TOY; HORSE; PIVOT; HEAD; MAGNET; ASSEMBLE; MAIN; BODY; SECURE;
REMOVE; ACCESSORY; PART

Derwent Class: P36
International Patent Class (Additional): A63H-033/00
File Segment: EngPI
?

Set	Items	Description
S1	6191641	CAR OR CARS OR AUTOMOBILE? OR VEHICLE? ? OR VEHICULAR? OR - TRUCK OR TRUCKS OR FIRETRUCK? OR VAN OR VANS OR TRAIN OR TRAI- NS OR MOTORCYCLE?
S2	3529047	AIRPLANE? ? OR AEROPLANE? OR AIRCRAFT? OR WATERCRAFT? OR B- OAT OR BOATS OR SHIP OR SHIPS OR YACHT? OR JET OR JETS OR ROC- KET? ? OR ROCKETSHIP? OR SPACECRAFT?
S3	138413	DOLL OR DOLLS OR FIGURINE? ? OR ACTION() (FIGURE? ? OR HERO OR HEROS OR HEROES)
S4	523829	TOY OR TOYS OR PLAYTHING? OR PLAY()THING?
S5	627408	MAGNET? OR ELECTROMAGNET? OR FERROMAGNET?
S6	2662921	IRON OR FERROUS OR STEEL OR NICKEL OR METAL OR METALLIC?
S7	14048492	ATTACH? OR COUPL? OR CONNECT? OR SECURE? ? OR SECURING OR - JOIN OR JOINED OR JOINING OR FASTEN? OR ENGAG??? OR FIX OR FI- XED OR AFFIX OR AFFIXED OR ADHER???
S8	2180691	INTERCHANG? OR DETACH? OR REMOV?
S9	19508222	PORTION OR PORTIONS OR ELEMENT? ? OR COMPONENT? OR PART OR PARTS OR SECTION? ? OR DIVISION? OR PIECE OR PIECES
S10	13603	S1:S4(5N)S5
S11	495977	S7:S8(5N)S9
S12	61	S10(S)S11
S13	15	S12/2003:2006
S14	46	S12 NOT S13
S15	90307	S5:S6(5N)S7
S16	12	S1:S3(S)S4(S)S15(S)S11
S17	9	S16 NOT S12
S18	8	RD (unique items)
S19	13	S1:S3(S)S4(S)S5(S)S11
S20	2	S19 NOT (S12 OR S17)
S21	293	S1:S4(S)S5(S)S11
S22	2704	S5(5N)S7:S8(5N)S9
S23	150	S1:S4(S)S22
S24	120	S23 NOT (S12 OR S17 OR S20)
S25	88	RD (unique items)
S26	10	S25/2003:2006
S27	78	S25 NOT S26
S28	31832	S5(5N)S9
S29	24	S1:S3(S)S4(S)S28
S30	19	S29 NOT (S12 OR S17 OR S20 OR S24)
S31	15	RD (unique items)

? show files

File 9:Business & Industry(R) Jul/1994-2006/Jul 19
(c) 2006 The Gale Group

File 16:Gale Group PROMT(R) 1990-2006/Jul 19
(c) 2006 The Gale Group

File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group

File 148:Gale Group Trade & Industry DB 1976-2006/Jul 18
(c)2006 The Gale Group

File 88:Gale Group Business A.R.T.S. 1976-2006/Jul 10
(c) 2006 The Gale Group

File 621:Gale Group New Prod.Annou.(R) 1985-2006/Jul 18
(c) 2006 The Gale Group

File 47:Gale Group Magazine DB(TM) 1959-2006/Jul 18
(c) 2006 The Gale group

File 141:Readers Guide 1983-2006/Jun
(c) 2006 The HW Wilson Co

File 484:Periodical Abs Plustext 1986-2006/Jul W3
(c) 2006 ProQuest

File 15:ABI/Inform(R) 1971-2006/Jul 20
(c) 2006 ProQuest Info&Learning

File 635:Business Dateline(R) 1985-2006/Jul 20
 (c) 2006 ProQuest Info&Learning
File 636:Gale Group Newsletter DB(TM) 1987-2006/Jul 19
 (c) 2006 The Gale Group
File 610:Business Wire 1999-2006/Jul 20
 (c) 2006 Business Wire.
File 810:Business Wire 1986-1999/Feb 28
 (c) 1999 Business Wire
File 613:PR Newswire 1999-2006/Jul 20
 (c) 2006 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
 (c) 1999 PR Newswire Association Inc

14/3,K/23 (Item 15 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2006 The Gale Group. All rts. reserv.

03950030 SUPPLIER NUMBER: 08259315
Molded magnets make coupling simpler. (Dynacast Co.'s single-piece
magnetic coupling for toy trains)
Murray, Charles J.
Design News, v45, n24, p84(1)
Dec 18, 1989
CODEN: DENBA ISSN: 0011-9407 LANGUAGE: ENGLISH RECORD TYPE:
CITATION

Molded magnets make coupling simpler. (Dynacast Co.'s single-piece
magnetic coupling for toy trains)

14/3,K/24 (Item 16 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2006 The Gale Group. All rts. reserv.

03880525 SUPPLIER NUMBER: 07401485 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Focus '89: toymakers offer the pick of the crop.
Playthings, v87, n2, p103(59)
Feb, 1989
ISSN: 0032-1567 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 34005 LINE COUNT: 02652

... hitch magnetically. A crate car, dumper car, passenger car and
cowcatcher can be added or removed. The train rides on four pieces of
white track. Humpty Dumpty and Mother Goose magnetic figures are
included.

Train pieces can be used with Imaginetics basic sets and
Turnarounds. #207

Cardinal unmasks 'Nightmare on...

14/3,K/36 (Item 1 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
(c) 2006 ProQuest. All rts. reserv.

00509038
Molded Magnets Make Coupling Simpler
Murray, Charles J
Design News (IDNE), v45 n24, p84
Dec 18, 1989
ISSN: 0011-9407 JOURNAL CODE: IDNE
DOCUMENT TYPE: Feature
LANGUAGE: English RECORD TYPE: Abstract
LENGTH: Medium (10-30 col inches)

ABSTRACT: By replacing a toy train's three-piece magnetic coupling
with a single, injection-molded part, engineers have cut costs and
simplified manufacturing. The fragile ceramic magnet is now protected.

18/3,K/3 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2006 The Gale Group. All rts. reserv.

05834733 SUPPLIER NUMBER: 12070957 (USE FORMAT 7 OR 9 FOR FULL TEXT)
DFM improves toy assembly. (Design for Manufacturability program at Mattel Inc.)
Assembly, v35, n2, p34(2)
Feb-March, 1992
ISSN: 1050-8171 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 590 LINE COUNT: 00049

TEXT:

...die cast Hot Wheels cars to high-tech toys such as the Nintendo Power Glove. **Components** include plastic and **metal parts , fasteners , fabrics, pc boards, and electronic parts.**

18/3,K/8 (Item 1 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
(c) 2006 ProQuest. All rts. reserv.

06285597 SUPPLIER NUMBER: 489572021 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Toy-rific
Hluchy, Patricia
Maclean's (GMAC), v116 n49, p58-59
Dec 8, 2003
ISSN: 0024-9262 JOURNAL CODE: GMAC
DOCUMENT TYPE: Feature
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 888

TEXT:

... STOMPER Mattel, 3 and up, \$24.99
There's a whole line of compelling rescue **toys** in the Matchbox line, and this one-with **magnets connecting** the various **components** -can be transformed into 50 firefighting **vehicles** . It includes a 60-cm ladder and a movable light bar with real lights and...
?

20/3,K/1 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2006 The Gale Group. All rts. reserv.

06055332 Supplier Number: 54141406 (USE FORMAT 7 FOR FULLTEXT)
100 years of Promotion.
Promo, n1047-1707, pNA
August, 1998
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 4472

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...brand continues to be sold. Cereal vendors were offering premiums such as spoons and rag **dolls** when Kellogg introduced animal cartoons in one of

the first copyrighted novelty premiums aimed at...

...debut, the Jungleland Moving Picture book had a circulation of 2.5 million. Children could **interchange** cutout **sections** of animals' heads, torsos, and legs featured in a six-page folder in the first...

...goods were rationed, and restrictions on metals forbid the manufacture of superfluous products such as **toy** cap pistols. "We didn't need promotion in this country until well after the Second...and intrusive. Exxon (then known as Esso and a variety of other regional brands) urged **car** owners to "Put a Tiger in Your Tank," and 30 years later, Exxon's plush...

...in its Jolly Green Giant TV spots, then cuddled up to them with Little Sprout **doll** premiums. And the California Raisin Council's claymation raisin characters later became a phenomenon in...fully plumbed. The promotion industry gallops toward the new millennium on the shoulders of technology. **Magnetic** stripes of one form or another have enabled phonecards and loyalty cards. The Coke Master...

27/3,K/10 (Item 8 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2006 The Gale Group. All rts. reserv.

05896162 Supplier Number: 53098916 (USE FORMAT 7 FOR FULLTEXT)
Specialty Toy Association Names Top 10 Holiday Picks.
PR Newswire, p4435
Oct 20, 1998
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 672

... for a free-falling marble -- all down the surface of your refrigerator. Each wooden Frigits **piece attaches magnetically** to a refrigerator or other vertical metal surface. From Tobin **Toys** .
-- Gearation (3 years and up/\$24.99) allows kids to explore the concept of gear...

27/3,K/60 (Item 9 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
(c) 2006 ProQuest. All rts. reserv.

01851538 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Review of exhibitions: Oyvind Fahlstrom
Rubinstein, Raphael
Art in America (GARA), v82 n2, p97-98, p.2
Feb 1994
ISSN: 0004-3214 JOURNAL CODE: GARA
DOCUMENT TYPE: Arts/Exhibits Review-Favorable
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 473 LENGTH: Short (1-9 col inches)

TEXT:

... to combine the two so effortlessly. Fahlstrom repeatedly used the

37

visual language of children's **toys** , jigsaw puzzles and board games to convey a radical political message. With his "variable" paintings, like *Sitting...6 Months Later* (1963), in which **elements** were **attached** to the support by **magnets** so that the viewer could rearrange them, Fahlstrom spiritedly presaged the antiauthoritarian sentiments of the...

31/3,K/2 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2006 The Gale Group. All rts. reserv.

13106798 Supplier Number: 145058358 (USE FORMAT 7 FOR FULLTEXT)
Nothing but the best: infant and preschool products continue to go upscale.(cover story)
Printz, Carrie
Playthings, v104, n4, p21(3)
April, 2006
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1358

... you," Weiss says.
Her customers request a lot of the Melissa & Doug princess and ballerina **toys** , featuring **magnetized wood pieces** that enable kids to try on different outfits. They retail for \$11. On the other end of the scale, her hand-made Raggedy Ann and Andy **dolls** are priced in the \$125 range for individual **dolls** , up to \$350 for the pair.
Smooth ride
In the stroller market, many parents are...

31/3,K/11 (Item 2 from file: 635)
DIALOG(R)File 635:Business Dateline(R)
(c) 2006 ProQuest Info&Learning. All rts. reserv.

0124190 90-06857
LEGO Systems Inc. Posts Another Year of Strong Growth
Hopkins, Jeanne L.
Business Wire (San Francisco, CA, US) s1 p1
PUBL DATE: 900125
WORD COUNT: 492
DATELINE: Enfield, CT, US

TEXT:

...defects."

Over 70 new LEGO and DUPLO sets will be introduced at the American International **Toy Fair** in New York on February 12. Making their debut will be several exciting new Pirate sets and the M-TRON mini-theme within the LEGO Space environment which feature **magnetized space vehicles** and neo-colored **components** .

The DUPLO line of preschool toys will expand to include a number of colorful play...



31/3,K/12 (Item 3 from file: 635)
DIALOG(R)File 635:Business Dateline(R)
(c) 2006 ProQuest Info&Learning. All rts. reserv.

0035344 87-14046

Pike Toys With Specialty Advertising

Marsh, Steve

The Denver Business Journal (Denver, CO, US), V38 N46 s1 p1

PUBL DATE: 870810

WORD COUNT: 1,434

DATELINE: Denver, CO, US

TEXT:

...a toy store," Pike said.

Promotional artifacts fill his office to prove the point: a **toy space ship**, for instance, and a moldable pile of **magnetic metal pieces** on a base **magnet**, begging to be nagged by nervous fingers.

Corporate clients buy boatloads of the gadgetry, of...

31/3,K/15 (Item 1 from file: 813)
DIALOG(R)File 813:PR Newswire
(c) 1999 PR Newswire Association Inc. All rts. reserv.

0912926

NYM044

1996 AMERICAN INTERNATIONAL TOY FAIR TO HOST 1,175 EXHIBITORS AT JAVITS CENTER

DATE: February 12, 1996 12:00 EST WORD COUNT: 2,306

...Magnet Sets, MAKE-A-SNAKE and BUILD-A-BUG, each with 39 mix and match **magnet pieces** to create a 2-headed python or an 8-legged grasshopperfly or ??? (Dowling Magnets/1509...

...new kits, too, from

Pamela Drake Imports/snakes & Things (Booth 1751). TAG ("think and grow") **Toys** (Booth 747) are designed to challenge and stimulate a child's mind, such as Tumble...

...new Oodles Craft Activity Tote, packed with over 200 brightly colored craft items, makes storing **toys** as much fun as playing with them (Bostik/563). Kids can color again and again...

...Multi-Activity Table (Nilo/2634).

Brickyard Building Bricks are safe, fun nontoxic foam bricks, named " **Toy of the Year**" by Family Fun magazine (Nickel Industries/G304). In association with the Museum...

...that is a replica of

the Museum's permanent exhibit, the Colleen Moore Fairy Castle **Doll House**. The ElectroWiz(TM) Science Kits are science book/kits with a touch of humor...

?

39

36/9/2 (Item 1 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
(c) 2006 ProQuest. All rts. reserv.

00509038

Molded Magnets Make Coupling Simpler

Murray, Charles J

Design News (IDNE), v45 n24, p84

Dec 18, 1989

ISSN: 0011-9407 JOURNAL CODE: IDNE

DOCUMENT TYPE: Feature

LANGUAGE: English RECORD TYPE: Abstract

LENGTH: Medium (10-30 col inches)

ABSTRACT: By replacing a toy train's three-piece magnetic coupling with a single, injection-molded part, engineers have cut costs and simplified manufacturing. The fragile ceramic magnet is now protected.

DESCRIPTORS: Engineering; Toys; Magnetism

SPECIAL FEATURES: Photograph

?

40

37/9/1 (Item 1 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
(c) 2006 ProQuest. All rts. reserv.

06285597 SUPPLIER NUMBER: 489572021 (THIS IS THE FULLTEXT)

Toy-rific

Hluchy, Patricia

Maclean's (GMAC), v116 n49, p58-59

Dec 8, 2003

ISSN: 0024-9262 JOURNAL CODE: GMAC

DOCUMENT TYPE: Feature

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 888

ABSTRACT: As you'll have guessed, I won't be tying a ribbon around these objets and putting them under my Christmas tree. I am betting, though, that this bird-brained Barbie and Elmo the abominable will be among the hottest toys this season. Happily, there are other options. While browsing store shelves I've spotted a number of toys and games that offer tons of stimulation, but aren't so crunchy-granola as to skimp on delight. These are gifts lads won't get bored with after a few days.

TEXT:

Amid the mean, too lean and make-you-scream items, some stellar gift options

Dear Santa Claus,

I've just reread the holiday letter I sent last year, in which I asked you to kindly annihilate Rapunzel Barbie, Chicken Dance Elmo and those peace-on-earth-be-damned Zoids toys Spinosnapper, War Shark and Zaber Fang. Now the festive season is upon us again, and again, Santa, you've done me wrong. Elmo is back with an especially grating version of the hokey-pokey. Barbie has been surgically enhanced into a winged Odette from Swan Lake (she doesn't dance, but her wings light up and flap!). Spinosnapper, War Shark and Zaber Fang have once more taken up battle positions in the Middle East . . . oops, I mean Toyland.

As you'll have guessed, I won't be tying a ribbon around these objets and putting them under my Christmas tree. I am betting, though, that this bird-brained Barbie and Elmo the abominable will be among the hottest toys this season. Happily, there are other options. While browsing store shelves I've spotted a number of toys and games that offer tons of stimulation, but aren't so crunchy-granola as to skimp on delight. These are gifts lads won't get bored with after a few days. So, thanks for that, and happy holidays to you, the Mrs. and the elves.

A parent

SURPRISE CIRCUS Chicco, 1 to 4, \$29.99 Simple, colourful and fun, the four wagons with pop-up circus performers can be stacked or made into a train.

VIKINGS

Playmobil, 4 and up, \$79.99 for longboat and crew, \$29.99 for sea serpent and one

Viking

The longboat rolls and floats, the figures and detailing are rich and colourful, and the imagination-stimulating component is huge. There are many smaller packages like a two-horse cart and three Vikings. And you can soup up the longboat with a separate underwater motor.

KID K'NEX ROVIN' ROLLERS

K'nex, 3 to 7, \$31.38

K'NEX MUSICAL FERRIS WHEEL

K'nex, 8 and up, \$78.48

This brightly coloured construction system comes in many versions and levels of difficulty. The new Rovin' Rollers, which comes in a nifty red case, includes 71 pieces and allows kids to build a wacky amalgam of

machine and sentient being. The motorized ferris wheel, which stands a metre tall and can also be adapted into two other carnival rides, features music and an abundance of magic.

B*STYLIN' BUTTON DESIGNER Bandai, 8 and up, \$24.99

LEGO CLIKITS Lego, 6 and up, \$6 and up

ELLO CREATION SYSTEM Mattel, 5 and up, \$5.99 to \$59.99

The popularity of beading kits and other activity gifts for girls has given birth to a new genre, the fashion/decor craft kit aimed at young females. Sure, girls will build stuff with various unisex systems, and they'll love doing so. But the make-pretty ethos does capture a lot of them early on. With B*stylin', girls can make their own buttons using a variety of provided designs. Clikits are Lego's system for decorating frames, jewellery, hair clips, pillows, etc. And Ello is both a construction toy and a way to make jewellery and other crafts.

CARIBOO Cranium, 3 to 6, \$19.95

GOBBLET! JUNIOR and GOBBLET! Blue orange Games, 5 and up/7 and up, \$30/\$40

SIMILARIUS Martin HB, 4 to 7, \$35

DARE TO DREAM Jubilee Enterprises Ltd., 12 and up, \$54.95

Games are enjoying a resurgence, and these are some of the excellent new choices this year. Cariboo and Gobblet! are ingenious variations on matching games and tic-tac-toe respectively. Similarius works on memory skills, while Dare to Dream plays on fantasies of winning the lottery.

SKY TRAIN Brio, 3 and up, \$100

The hang-car concept is a fresh, delightful reinvention of the toy train.

PLASMACAR PlaSmart, 3 and up, \$89.95

Call it the miracle car. No pedals, no batteries, but it moves-by harnessing the forces of inertia, centrifugal force, gravity and friction. All a child has to do is move the steering wheel.

GROWING, GLOWING GARDEN GLOB Creativity for Kids, 7 and up, \$25

Children may not "get" the clever, tabloid-like graphics on the box, but they'll love this fun, wacky update on the Chia Pet, in which real grass grows out of a "glob" the child makes and decorates herself.

MATCHBOX MAGNA WHEELS FIRE STOMPER Mattel, 3 and up, \$24.99

There's a whole line of compelling rescue toys in the Matchbox line, and this one-with magnets connecting the various components-can be transformed into 50 firefighting vehicles. It includes a 60-cm ladder and a movable light bar with real lights and sounds.

LITTLETOUCH LEAPPAD LEARNING SYSTEM LeapFrog, 6 to 36 months, \$59.99

LEAPSTART LEARNING TABLE LeapFrog, 6 months and up, \$59.99

PRETEND & LEARN SHOPPING CART LeapFrog, 2 and up, \$79.99

LeapFrog, the successful manufacturer of interactive, educational toys, expands its line with three appealing products. The LittleTouch LeapPad teaches some basic skills by going with baby's instinct to put his hands on exciting images. A variation on an established toy, the learning table is animated by lights and music. LeapFrog's shopping cart, meanwhile, hits two bases: small kids' love of pushing carts and strollers, and their sponge-like ability to absorb information about colours, numbers and food.

MY FIRST CHEMISTRY KIT Scientific Explorer, 4 and up, \$25-\$29

This lab kit comes from a company that excels in innovative ways to teach kids science (its new Spa Science, for example, teaches chemistry principles through spa treatments).

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DESCRIPTORS: Toys; Product introduction

CODEN: MCNMBC

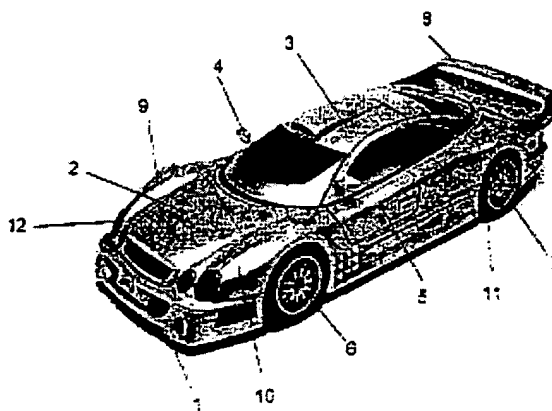
SPECIAL FEATURES: Photograph

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(42)

Model car with parts detached during collisions**Publication number:** DE19750436**Publication date:** 1999-05-20**Inventor:** MALEIKA HUBERTUS (DE)**Applicant:** CARRERA CENTURY TOYS (DE)**Classification:****- international:** A63H17/02; A63H17/00; (IPC1-7): A63H17/26;
A63H17/00**- european:** A63H17/02**Application number:** DE19971050436 19971114**Priority number(s):** DE19971050436 19971114[Report a data error here](#)**Abstract of DE19750436**

The model car has a chassis with engine and wheels and a body, which detaches partially during a collision. The detachable part is held on the vehicle by magnetic force, and is shaped like a spare part for the vehicle. The detachable part is especially a wing (9,10,11), bonnet (2), bumper (1), door (5), roof (3), mirror (4), spoiler (8), or headlight (12). The magnet is positioned on the part and is a button magnet or a band-shaped plastic magnet. The detachable part is retained on the vehicle via a joint or wire after the magnetic force is released.




Data supplied from the esp@cenet database - Worldwide

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Doll body with magnet and pole pieces and detachable appendages

Publication number: US4038775
Publication date: 1977-08-02
Inventor: SATO YASUTA
Applicant: TAKARA CO LTD
Classification:
- **international:** A63H3/46; A63H3/00; (IPC1-7): A63H33/26
- **european:** A63H3/46
Application number: US19750584851 19750609
Priority number(s): JP19740132236U 19741031

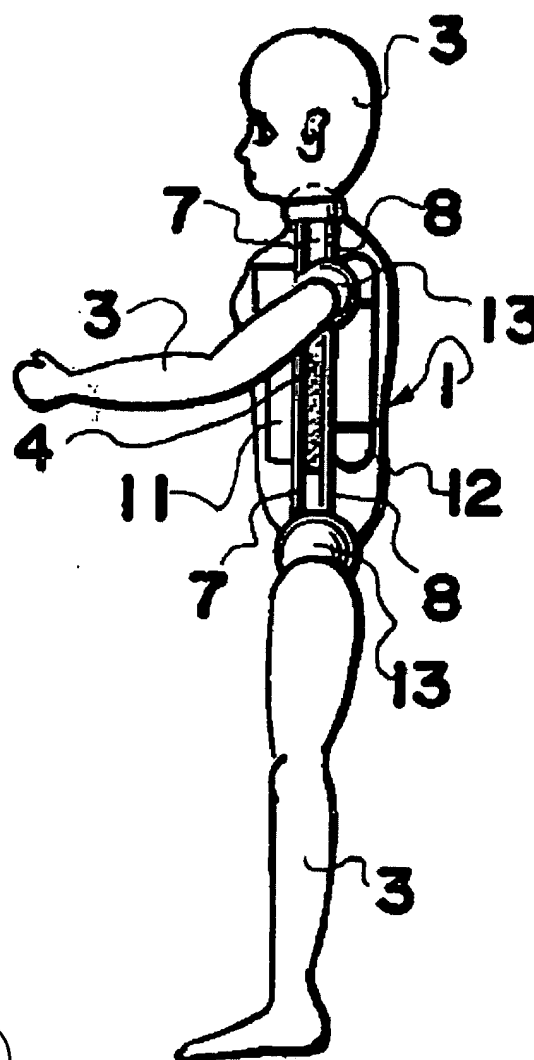
Also published as:

 GB1511743 (A)

[Report a data error here](#)

Abstract of US4038775

A doll is provided having a plurality of segments which are coupled operably but removably to each other. Each segment has a joint portion or portions which provide an articulation or a joint means in combination with a counterpart joint portion or portions of another segment, when assembled. The articulation or joint means comprises a magnet means built in one segment, and a counterpart joint portion of a magnetic material which is part of another segment. The magnet means comprises a permanent magnet and a pair of pole pieces formed with extension portions which provide magnetic gaps to the aforesaid counterpart portions of another segment, defining joint positions. The counterpart portion described is attracted to the aforesaid pair of pole pieces in the aforesaid joint position to allow for relative movement to the pole pieces.



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46

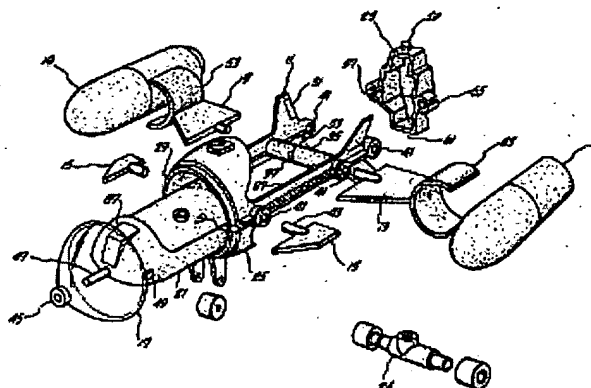
Multiple function water-going toy

Publication number: US4144669
Publication date: 1979-03-20
Inventor: OGAWA IWAKICHI
Applicant: TAKARA CO LTD
Classification:
- international: **A63H23/00; A63H23/00; (IPC1-7): A63H33/06**
- european: **A63H23/00B**
Application number: US19770806141 19770613
Priority number(s): US19770806141 19770613

[Report a data error here](#)

Abstract of US4144669

A toy aqua-plane includes a number of reconfigurable parts. One of the parts is a removable tank member which provides a second interesting puzzle toy. The puzzle toy may interact with a magnet included in another of the toy parts. The toy also includes an attachable watertight electric motor for propelling it through water.



Data supplied from the **esp@cenet** database - Worldwide

47

Articulated magnetic doll

Publication number: US4118888

Publication date: 1978-10-10

Inventor: OGAWA IWAKICHI

Applicant: TAKARA CO LTD

Classification:

- international: **A63H3/16; A63H33/26; A63H3/00; A63H33/26; (IPC1-7): A63H33/26; A63H13/16**

- european: A63H3/16; A63H33/26

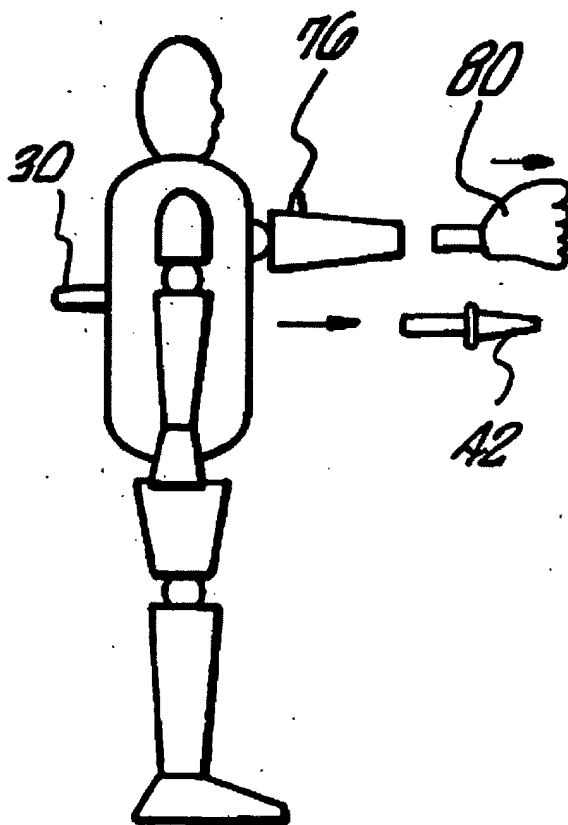
Application number: US19760725941 19760923

Priority number(s): US19760725941 19760923

Report a data error here

Abstract of US4118888

A versatile articulated magnetic toy having removable appendages is provided. Body shells encapsulate a magnet and pair of armature plates. The armature plates include beveled edges to form joints and are retained on either side of the magnet by the magnetic flux. The magnet is hollow and can be aligned by the respective body shells and can further accommodate a chest cavity projectile firing mechanism. The appendages advantageously resemble humanoid arms and legs. An arm appendage can include a spring-loaded firing mechanism capable of discharging the first portion of the arm as a projectile. The ease with which the appendages can be removed permits the addition of various accessories to form modified toy assemblies.

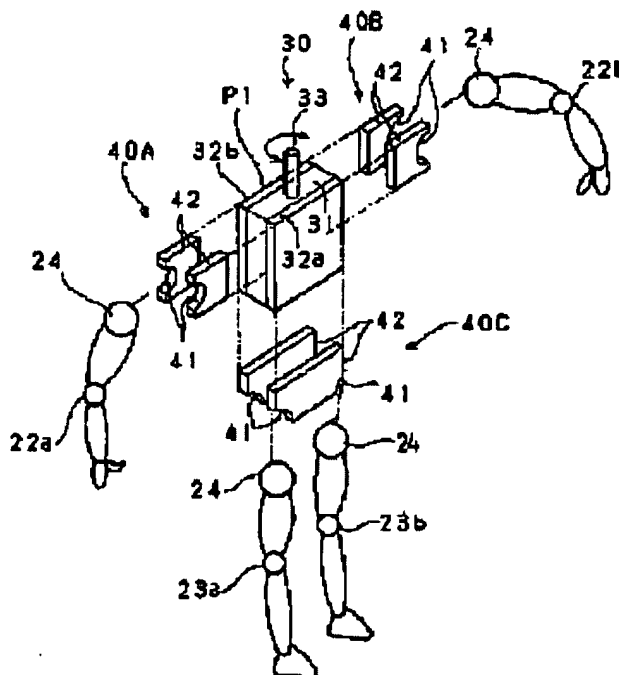


Data supplied from the **esp@cenet** database - Worldwide

48

TOY**Publication number:** JP8257248**Publication date:** 1996-10-08**Inventor:** TAKATANI MOTOKI**Applicant:** TAKARA CO LTD**Classification:****- international:** A63H3/16; A63H3/36; A63H3/46; A63H3/00; (IPC1-7): A63H3/36**- european:****Application number:** JP19950088722 19950322**Priority number(s):** JP19950088722 19950322[Report a data error here](#)**Abstract of JP8257248**

PURPOSE: To allow the easy detachment of exchangers from a holding mechanism so as to facilitate the exchange of the exchangers and to assure the unexpectedness and fan of movement by moving a magnet of a holding mechanism to attract and detach the spherical body parts of the exchangers in proximity to a spherical ball receiving part. **CONSTITUTION:** A magnet part 30 is constituted by attracting yokes 32a, 32b from before and behind the magnet 31. The upper part of the magnet part 30 is provided with a shaft part 33 faced upward. The shaft part is supported freely turnably on a horizontal plane. Paired spherical ball receiving parts 40A, 40B are composed from parallel supporting pieces 42 formed with recessed parts 41 to receive the spherical ball parts 24 of arm parts 22a, 22b. Further, the spherical ball receiving part 40C is composed of the parallel supporting pieces 42 formed with the recessed parts 41 to receive the spherical ball parts 24 of leg parts 23a, 23b. The yokes 32a, 32b and the supporting pieces 42 are parted when the magnet part 30 turns perpendicularly from an attraction position P1 and, therefore, the magnetization of the respective spherical ball receiving parts 40A to 40C is eliminated and a detached state is attained. Then, the exchange of the exchangers 22, 23 is facilitated and the unexpectedness and fan of movement are assured.



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Inter order/family prehistoric lizard display model

Publication number: US5980260

Publication date: 1999-11-09

Inventor: CAPUTI CLAUDE G (US)

Applicant:

Classification:

- international: **A63H3/16; G09B23/36; A63H3/00; G09B23/00;** (IPC1-7): G09B23/36; A63H3/16

- european: A63H3/16; G09B23/36

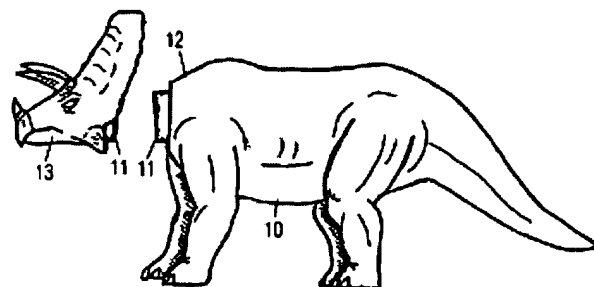
Application number: US19970959333 19971028

Priority number(s): US19970959333 19971028

Report a data error here

Abstract of US5980260

Replicas of prehistoric lizards which consist of a replica core body part with interchangeably attachable replica head, and/or neck, and/or limb, and/or body armor parts which combine to depict different species within a given biological Order or Family. +E, fra 3/4+EE " circular magnets 11 are applied to appropriate surfaces on the replica core body parts and replica head, neck, limb, or body armor parts, allowing the parts to attach and detach quickly and easily.






Data supplied from the **esp@cenet** database - Worldwide

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Magnetized toy with removable appendages

Publication number: US4176492
Publication date: 1979-12-04
Inventor: JONES LAWRENCE T (US); SIMS ANSON (US)
Applicant: CALIFORNIA R AND D CENTER (US)
Classification:
- international: **A63H3/16; A63H3/00; (IPC1-7): A63H3/10**
- european: **A63H3/16**
Application number: US19770863931 19771223
Priority number(s): US19770863931 19771223

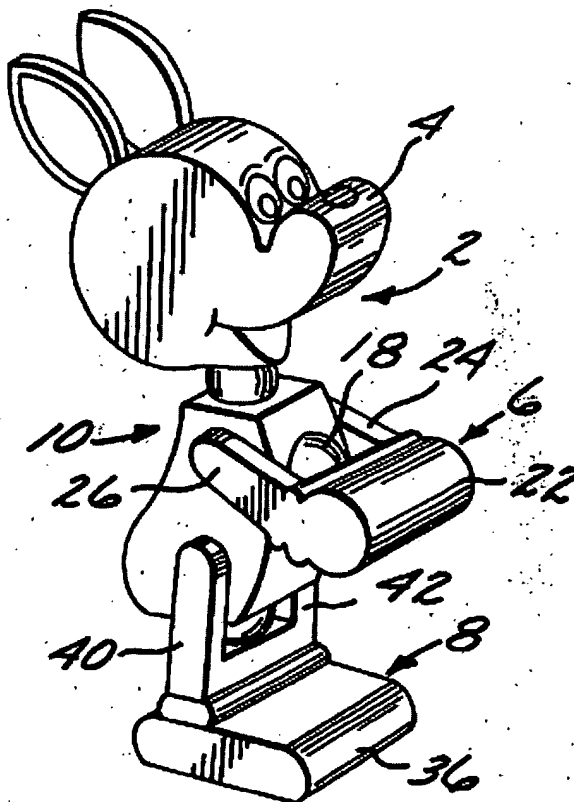
Also published as:

 FR2412328 (A1)
 DE2823319 (A1)
 IT1108771 (B)

[Report a data error here](#)

Abstract of US4176492

An articulated magnetized toy having removable appendages is provided for young children. A body member can be subjectively configured to simulate the body of a humanoid, animal, vehicle, etc. The body member contains at least one magnet and armature plates for removably retaining one or more articulated appendages. Preferably, the side surfaces of the body member are flat and parallel. An articulated appendage has a U-shaped configuration which includes a base member and pair of upright members extending on either side of the housing member. The upright members can be configured and positioned on the body member to represent legs or arms. A spherical joint is mounted on the base member for interconnection with arcuate joints on the armature plates.



Data supplied from the esp@cenet database - Worldwide

51

Set	Items	Description
S1	9	AU=(GRZESEK R? OR GRZESEK, R?)
S2	8	AU=(BARRI D? OR BARRI, D?)
S3	360	AU=(SANCHEZ J? OR SANCHEZ, J?)
S4	2	S1 AND S2 AND S3
S5	13	S1:S3 AND (MAGNET? OR FERROMAGNET? OR FERROUS OR IRON)
S6	12	S5 NOT S4

File 347:JAPIO Dec 1976-2005/Dec(Updated 060404)

(c) 2006 JPO & JAPIO

File 350:Derwent WPIX 1963-2006/UD=200645

(c) 2006 The Thomson Corp.

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4/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 The Thomson Corp. All rts. reserv.

016282680 **Image available**

WPI Acc No: 2004-440575/200441

XRPX Acc No: N04-348589

Multi-action module toy has base unit with personal computer interface port and input port to which light module, sound module, pushbutton module and pull pin module, are interchangeably connected

Patent Assignee: MATTEL INC (MATV)

Inventor: ARELLANO J; **BARRI D** ; **GRZESEK R** ; LIGHTBODY T R; **SANCHEZ J**

Number of Countries: 082 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200443560	A2	20040527	WO 2003US34561	A	20031030	200441 B
AU 2003287323	A1	20040603	AU 2003287323	A	20031030	200470

Priority Applications (No Type Date): US 2003425017 P 20031021; US 2002425017 P 20021107

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200443560	A2	E	23	A63H-000/00	
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Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SK SL TJ TM TR TT UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR

AU 2003287323	A1			A63H-000/00	Based on patent WO 200443560
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Abstract (Basic): WO 200443560 A2

NOVELTY - A base unit with a personal computer interface port, stores audible sounds that are selected using a rotatable sound selector dial. Several buttons provided in the base unit are used for selecting several game play modes. Several interactive modules including light module, sound module, pushbutton module and pull pin module, are interchangeably connected to the input port of base unit.

USE - Toy capable of providing variety of sounds, light and movement activities, speech and games.

ADVANTAGE - Provides more improved, interesting, amusing and entertaining toy that facilitates downloading of additional sounds or sound combinations, by connecting the base unit of toy to personal computer through the interface port.

DESCRIPTION OF DRAWING(S) - The figure shows a schematic view of the multi-action module toy.

toy (10)

connectors (27,28)

pp; 23 DwgNo 1/6

Title Terms: MULTI; ACTION; MODULE; TOY; BASE; UNIT; PERSON; COMPUTER; INTERFACE; PORT; INPUT; PORT; LIGHT; MODULE; SOUND; MODULE; PUSHBUTTON; MODULE; PULL; PIN; MODULE; INTERCHANGE; CONNECT

Derwent Class: P36; T01; W04

International Patent Class (Main): A63H-000/00

File Segment: EPI; EngPI

4/5/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 The Thomson Corp. All rts. reserv.

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016190468 **Image available**

WPI Acc No: 2004-348354/200432

XRPX Acc No: N04-278722

Magnetic assembly toy vehicle, has components that are held together by magnetic portions strategically located on one component that interact with either magnetic portions located on other components or with ferrous components

Patent Assignee: MATTEL INC (MATV); BARRI D (BARR-I); GRZESEK R (GRZE-I); SANCHEZ J (SANC-I)

Inventor: BARRI D ; GREZEK R; SANCHEZ J ; GRZESEK R

Number of Countries: 107 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200435166	A2	20040429	WO 2003US32826	A	20031016	200432 B
US 20040198143	A1	20041007	US 2002419205	P	20021016	200466
			US 2003688733	A	20031015	
AU 2003301250	A1	20040504	AU 2003301250	A	20031016	200467
EP 1554025	A2	20050720	EP 2003809078	A	20031016	200547
			WO 2003US32826	A	20031016	
BR 200315370	A	20050823	BR 200315370	A	20031016	200557
			WO 2003US32826	A	20031016	
AU 2003301250	A8	20051110	AU 2003301250	A	20031016	200634
KR 2005051700	A	20050601	WO 2003US32826	A	20031016	200641
			KR 2005706495	A	20050415	

Priority Applications (No Type Date): US 2003688733 A 20031015; US 2002419205 P 20021016

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200435166	A2	E	21	A63H-000/00	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

US 20040198143	A1			A63H-033/26	Provisional application US 2002419205
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AU 2003301250	A1			A63H-000/00	Based on patent WO 200435166
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EP 1554025	A2	E		A63H-033/26	Based on patent WO 200435166
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Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

BR 200315370	A			A63H-033/26	Based on patent WO 200435166
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AU 2003301250	A8			A63H-033/26	Based on patent WO 200435166
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KR 2005051700	A			A63H-033/26	Based on patent WO 200435166
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Abstract (Basic): WO 200435166 A2

NOVELTY - The toy (10) includes components (12) that are held together by magnetic portions (14) strategically located on one component that interact with either magnetic portions located on other components or with ferrous components.

USE - Magnetic assembly toy vehicle. Can also be in the form of a train, motorcycle, aircraft or watercraft.

ADVANTAGE - Easy to assemble and disassemble for increased enjoyment during play.

DESCRIPTION OF DRAWING(S) - The figure shows the top isometric view of the toy.

Toy (10)

Components (12)

Magnetic portions (14)
Vehicle body (16)
Cockpit (18)
pp; 21 DwgNo 1/11
Title Terms: MAGNETIC; ASSEMBLE; TOY; VEHICLE; COMPONENT; HELD; MAGNETIC;
PORTION; STRATEGY; LOCATE; ONE; COMPONENT; INTERACT; MAGNETIC; PORTION;
LOCATE; COMPONENT; FERROUS; COMPONENT
Derwent Class: P36
International Patent Class (Main): A63H-000/00; A63H-033/26
International Patent Class (Additional): A63H-017/00; A63H-017/25
File Segment: EngPI
?

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6/5/1 (Item 1 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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017673140 **Image available**

WPI Acc No: 2006-184404/200619

XRPX Acc No: N06-159214

Motion responsive toy for child, has source of magnetic field moved by user relative to electromagnetic sensor to expose electromagnetic sensor to electromagnetic field that changes according to movement of source relative to sensor

Patent Assignee: MATTEL INC (MATV)

Inventor: **BARRI D** ; MARTIN R J

Number of Countries: 111 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200620486	A2	20060223	WO 2005US27737	A	20050805	200619 B
US 20060046606	A1	20060302	US 2004600636	P	20040810	200619
			US 2005198170	A	20050804	

Priority Applications (No Type Date): US 2005198170 A 20050804; US 2004600636 P 20040810

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200620486 A2 E 23 A63H-029/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

US 20060046606 A1 A63H-029/00 Provisional application US 2004600636

Abstract (Basic): WO 200620486 A2

NOVELTY - An electromagnetic sensor is supported in a housing (40). A controller operates an output to obtain different outputs for different magnitudes of a signal. The source (12) of a **magnetic** field (14) is moved by a user relative to electromagnetic sensor to expose electromagnetic sensor to electromagnetic field that changes according to movement of source relative to sensor by the user.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of operating a toy.

USE - For child.

ADVANTAGE - Ensures variation of number of lights, rate of flashing of lights, intensity of lights or volume, tone and/or other characteristic of sound produced since feature of outputs is modulated or varied according to sensor signal.

DESCRIPTION OF DRAWING(S) - The figure shows the explanatory drawing of a toy.

Source (12)

Magnetic field (14)

Base circuit (17)

Permanent **magnet** (28)

Housing (40)

pp; 23 DwgNo 2/5

Title Terms: MOTION; RESPOND; TOY; CHILD; SOURCE; **MAGNETIC** ; FIELD; MOVE; USER; RELATIVE; ELECTROMAGNET; SENSE; EXPOSE; ELECTROMAGNET; SENSE; ELECTROMAGNET; FIELD; CHANGE; ACCORD; MOVEMENT; SOURCE; RELATIVE; SENSE

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Derwent Class: P36; S01; W04
International Patent Class (Main): A63H-029/00; A63H-029/10
File Segment: EPI; EngPI

6/5/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 The Thomson Corp. All rts. reserv.

016056747 **Image available**
WPI Acc No: 2004-214598/200420
XRPX Acc No: N04-169976

Magnetized joint for toy figure, has magnetic socket attached to second member and slidably receives magnetic peg to attach magnetic head to magnetic socket and magnetically engage another peg to magnetic socket

Patent Assignee: MATTEL INC (MATV); BARRI D (BARR-I)

Inventor: BARRI D

Number of Countries: 106 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200418064	A1	20040304	WO 2003US25423	A	20030812	200420 B
US 20040077259	A1	20040422	US 2002405133	P	20020821	200428
			US 2003639902	A	20030812	
AU 2003265435	A1	20040311	AU 2003265435	A	20030812	200457
US 6893315	B2	20050517	US 2002405133	P	20020821	200533
			US 2003639902	A	20030812	
EP 1558351	A1	20050803	EP 2003793054	A	20030812	200551
			WO 2003US25423	A	20030812	
CN 1674964	A	20050928	CN 2003819811	A	20030812	200610
KR 2005051648	A	20050601	WO 2003US25423	A	20030812	200641
			KR 2005702916	A	20050221	

Priority Applications (No Type Date): US 2002405133 P 20020821; US 2003639902 A 20030812

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200418064 A1 E 21 A63H-033/04

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

US 20040077259 A1 A63H-033/04 Provisional application US 2002405133

AU 2003265435 A1 A63H-033/04 Based on patent WO 200418064

US 6893315 B2 A63H-033/04 Provisional application US 2002405133

EP 1558351 A1 E A63H-033/04 Based on patent WO 200418064

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

CN 1674964 A A63H-033/04

KR 2005051648 A A63H-003/46 Based on patent WO 200418064

Abstract (Basic): WO 200418064 A1

NOVELTY - A magnetic socket (14), attached to a second member, slidably receives a magnetic peg (12) to attach the magnetic head to the magnetic socket and magnetically engage another peg to the

57

magnetic socket.

USE - For toy figure.

ADVANTAGE - Allows pivotal movement of **magnetized** joint since **magnetic** peg is rotatable within socket.

DESCRIPTION OF DRAWING(S) - The figure shows the cross-sectional view of a **magnetized** joint.

Magnetized joint (10)

Magnetic peg (12)

Magnetic socket (14)

Anchor (16)

Receiver (18)

pp; 21 DwgNo 1/7

Title Terms: **MAGNETISE** ; JOINT; TOY; FIGURE; **MAGNETIC** ; SOCKET; ATTACH;
SECOND; MEMBER; SLIDE; RECEIVE; **MAGNETIC** ; PEG; ATTACH; **MAGNETIC** ; HEAD
; **MAGNETIC** ; SOCKET; **MAGNETIC** ; ENGAGE; PEG; **MAGNETIC** ; SOCKET

Derwent Class: P36

International Patent Class (Main): A63H-003/46; A63H-033/04

International Patent Class (Additional): A63H-003/12; A63H-003/16;
A63H-033/12; A63H-033/26

File Segment: EngPI

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Set	Items	Description
S1	0	GRZESEK
S2	316	BARRI
S3	985	(JORGE OR J) (2N) SANCHEZ
S4	3	S2:S3 AND (MAGNET? OR FERROMAGNET?) AND (TOY OR TOYS)
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